

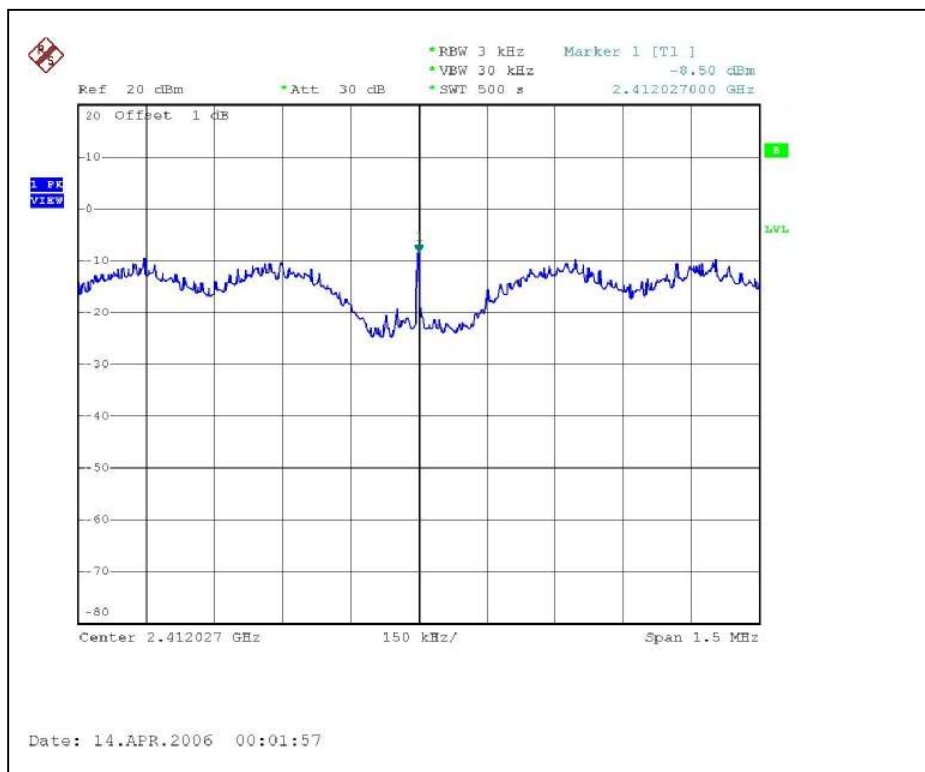


802.11g OFDM MODULATION:

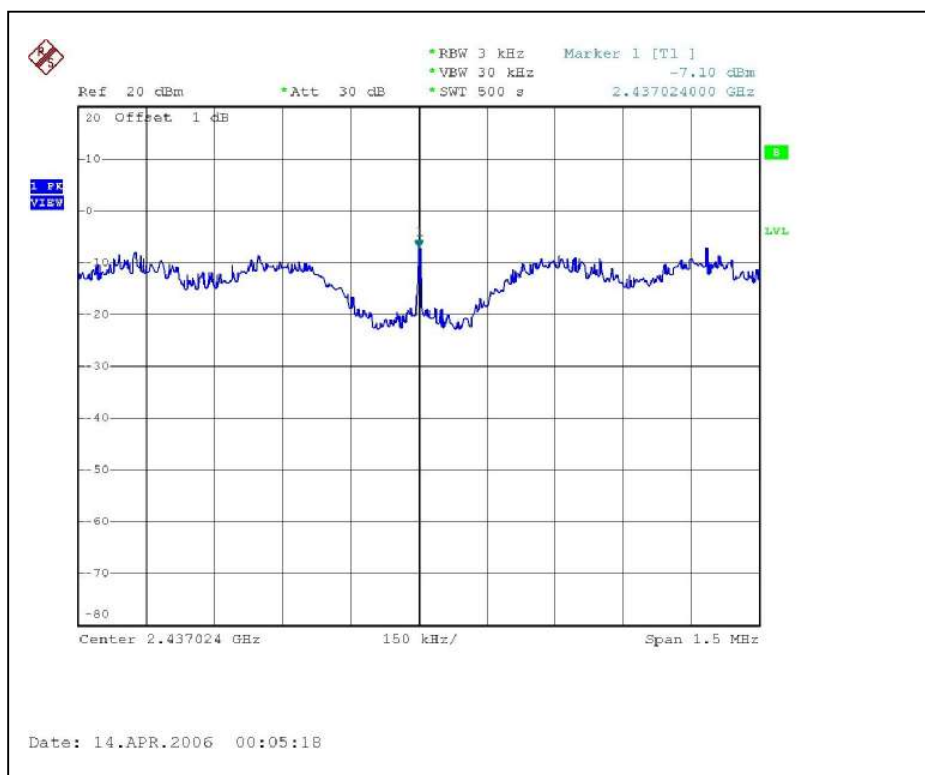
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 70%RH, 964hPa
TESTED BY	Moris Lin		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)			MAXIMUM LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	-8.50	-7.17	-8.23	8	PASS
6	2437	-7.10	-7.66	-6.84	8	PASS
11	2462	-11.59	-10.82	-11.10	8	PASS

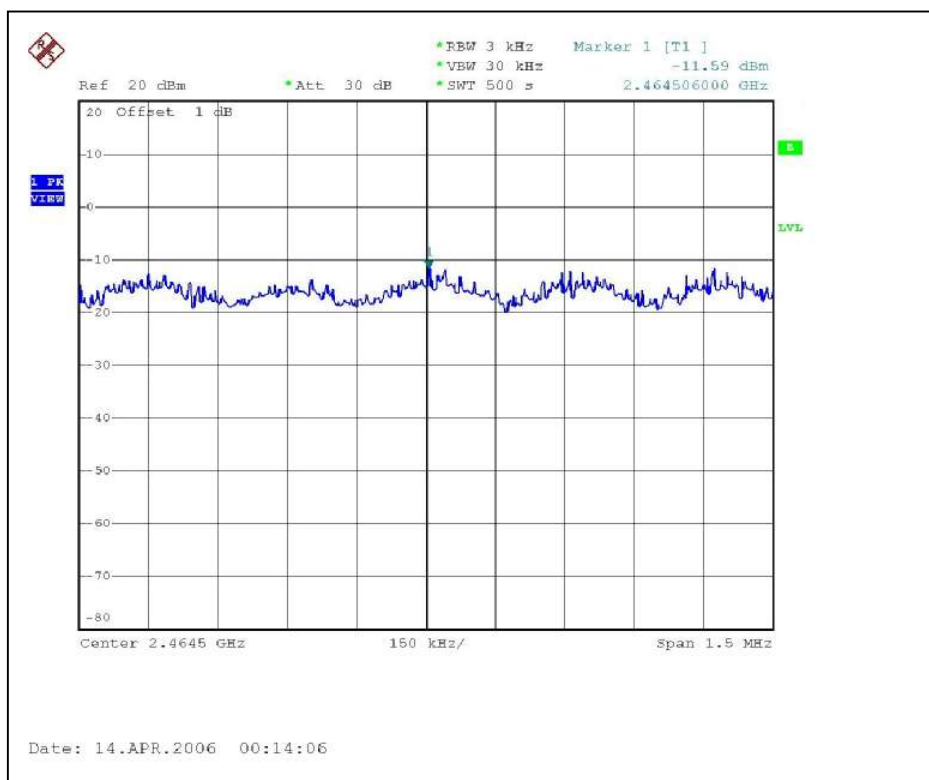
FOR CHAIN 0: CH1



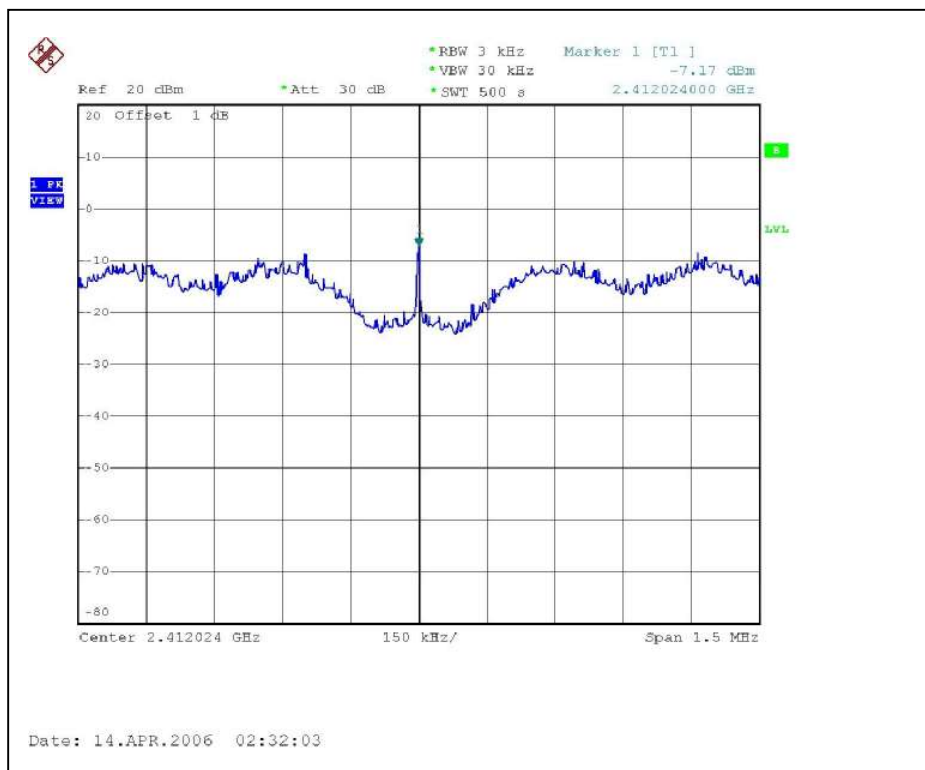
CH6



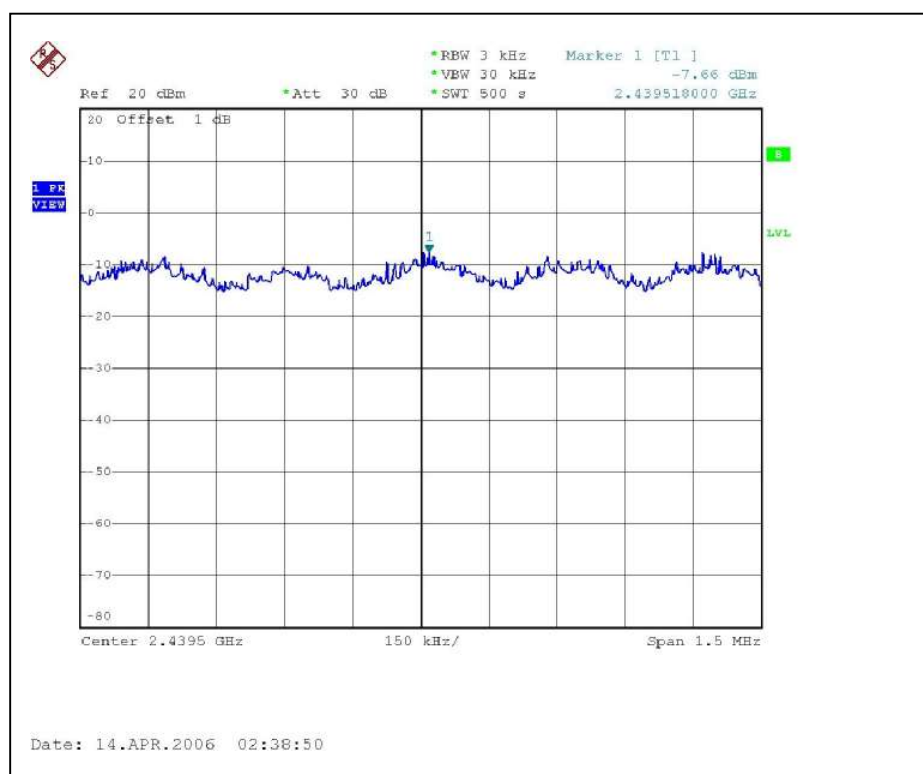
CH11



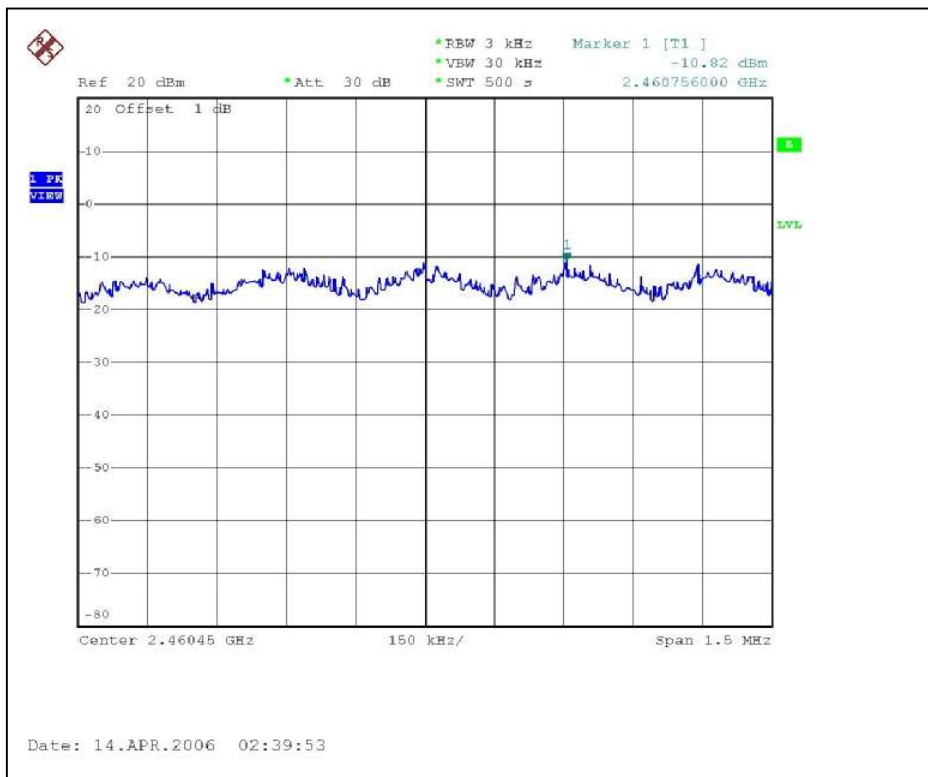
FOR CHAIN 1: CH1



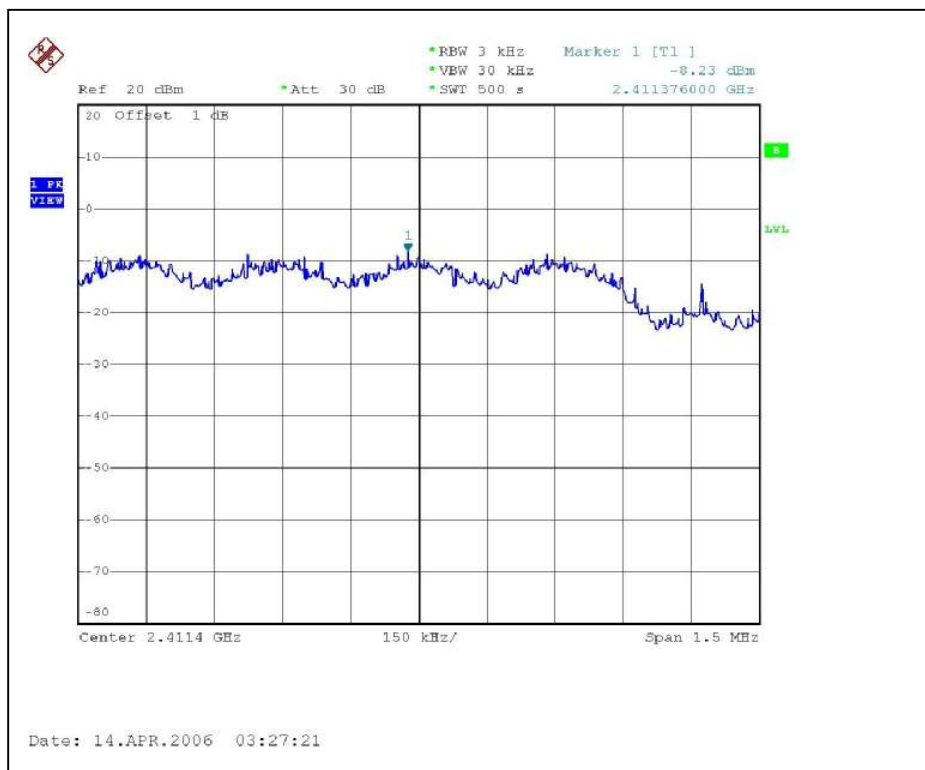
CH6



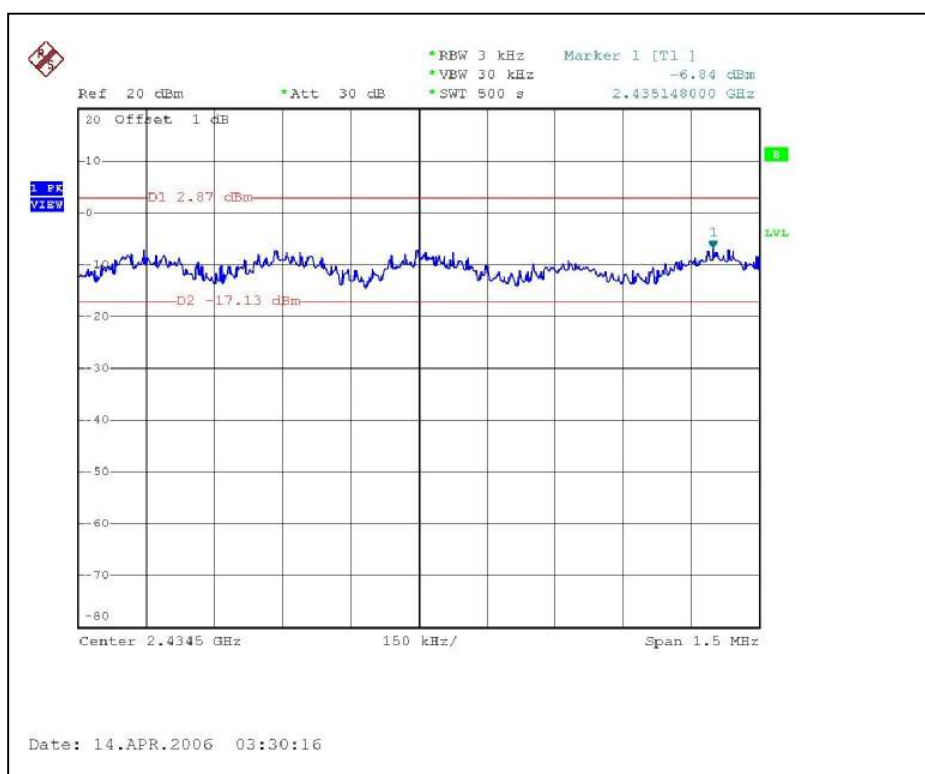
CH11



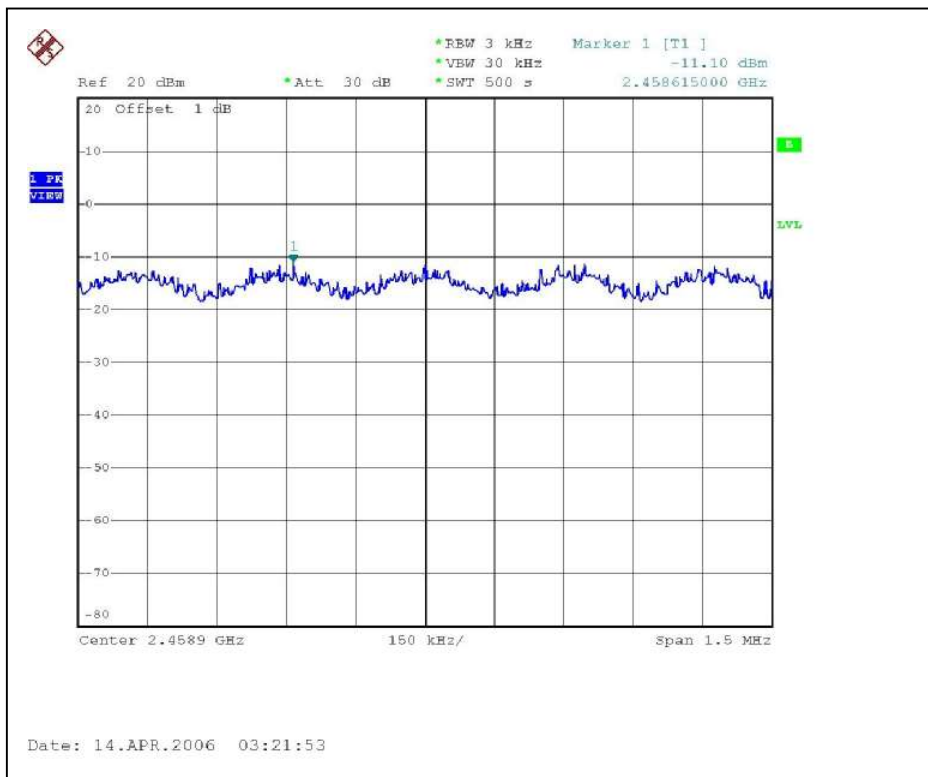
FOR CHAIN 2: CH1



CH6



CH11



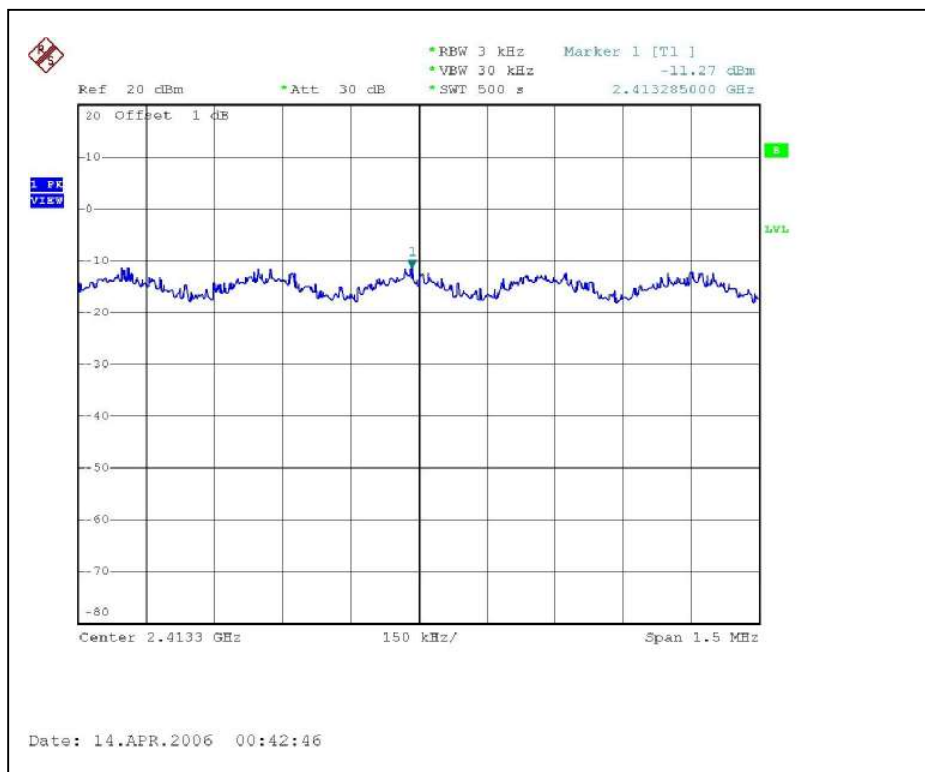


DRAFT 802.11n (20MHz) OFDM MODULATION:

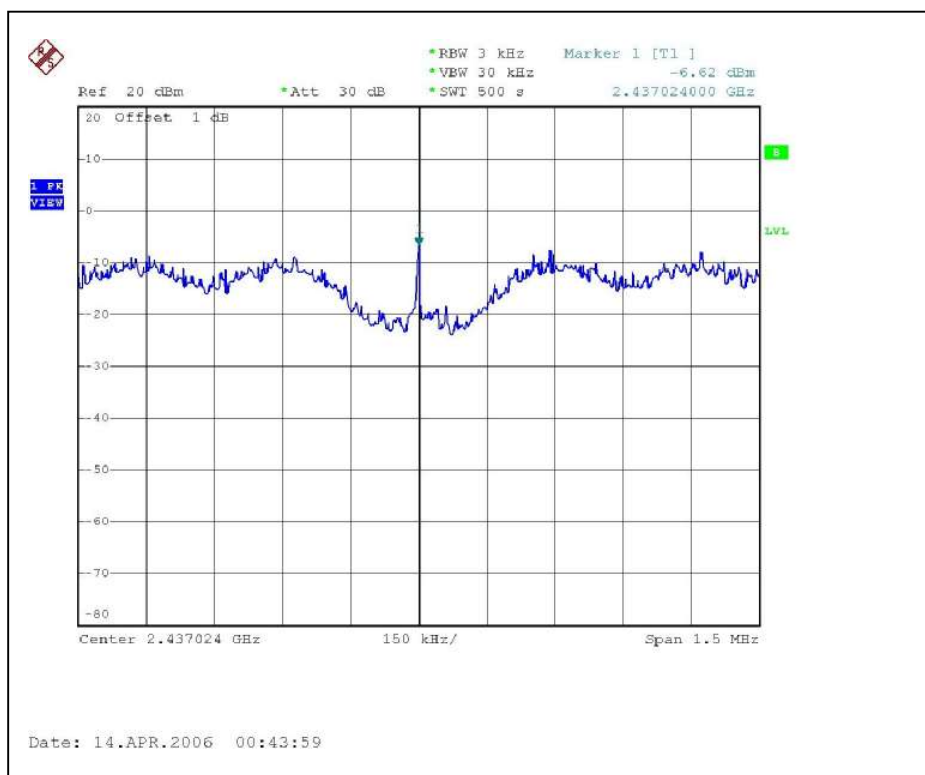
MODULATION TYPE	BPSK	TRANSFER RATE	6.5Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 70%RH, 964hPa
TESTED BY	Moris Lin		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)			MAXIMUM LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	-11.27	-10.79	-10.13	8	PASS
6	2437	-6.62	-8.17	-6.66	8	PASS
11	2462	-14.47	-12.30	-12.38	8	PASS

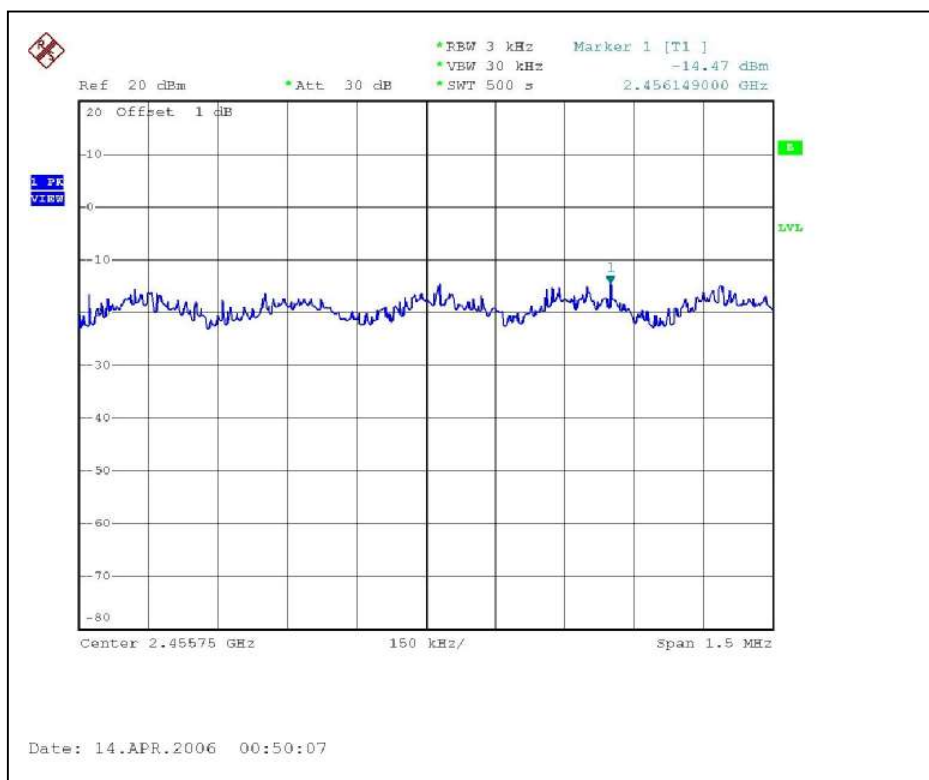
FOR CHAIN 0: CH1



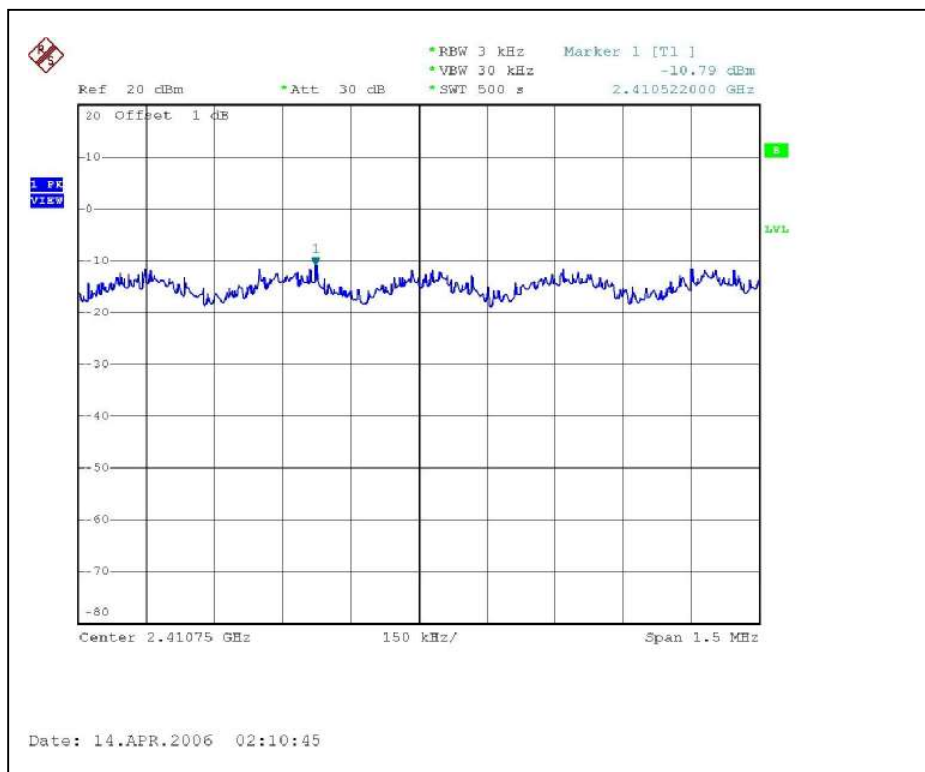
CH6



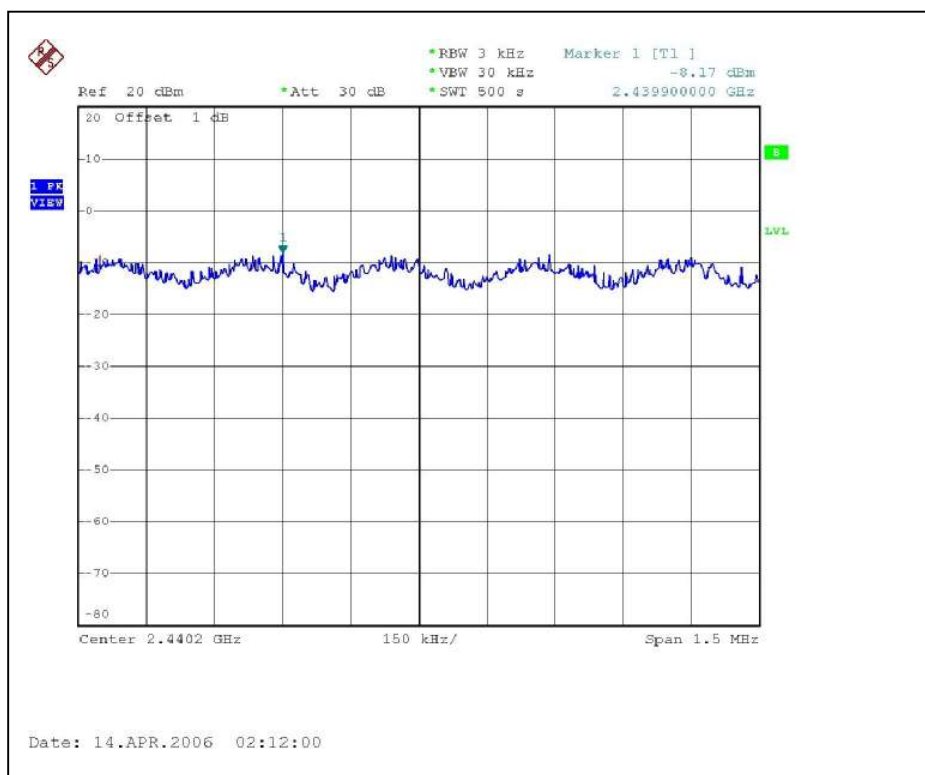
CH11



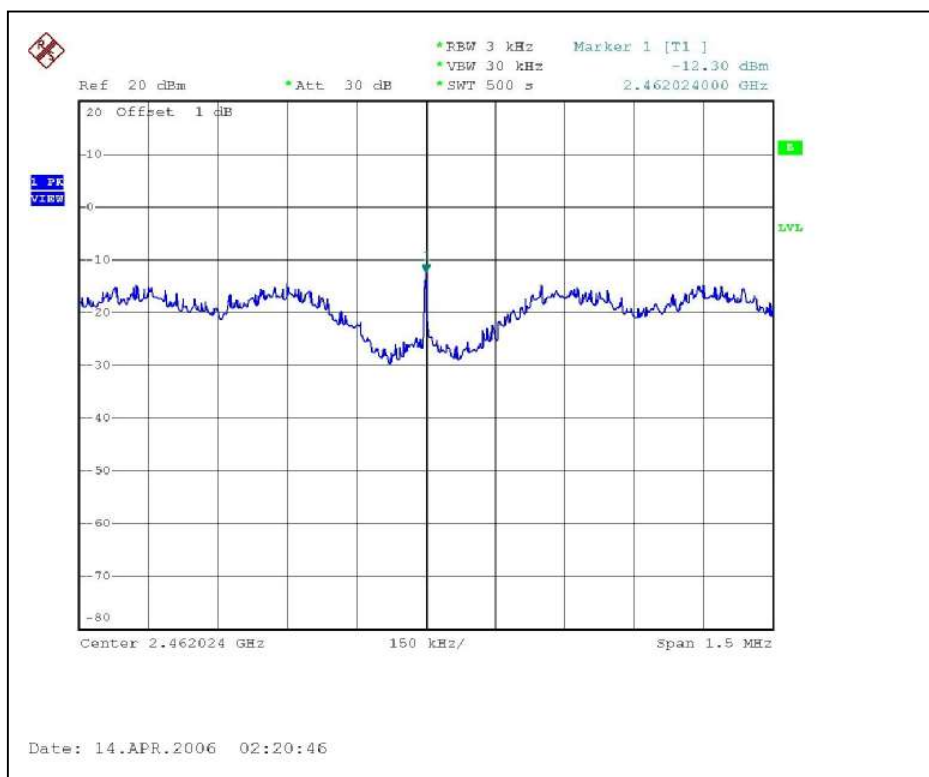
FOR CHAIN 1: CH1



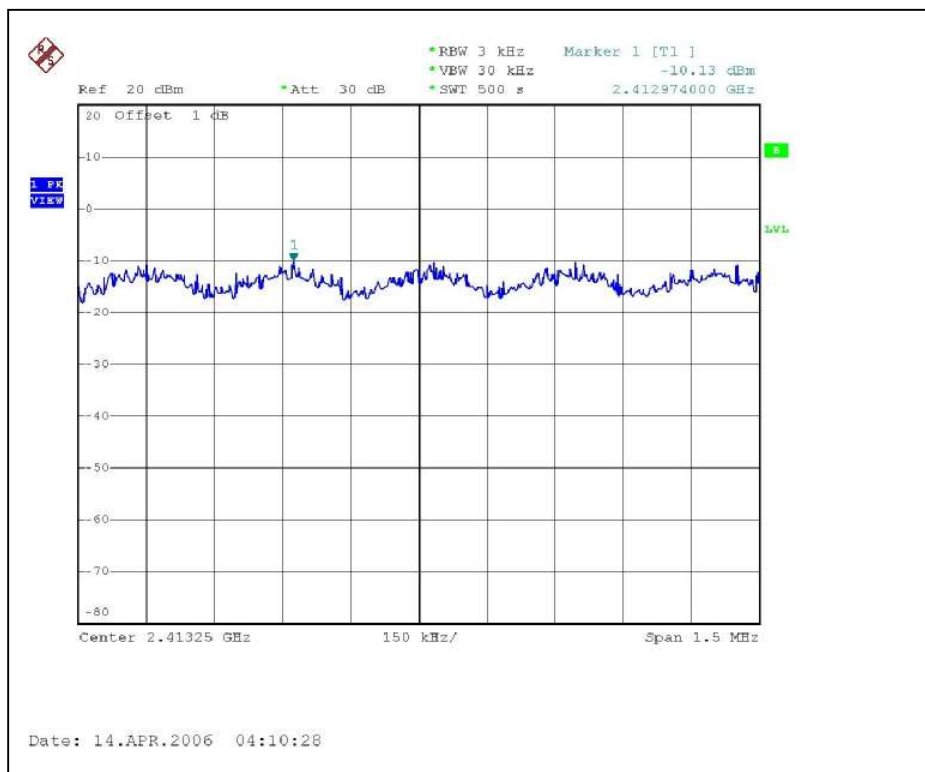
CH6



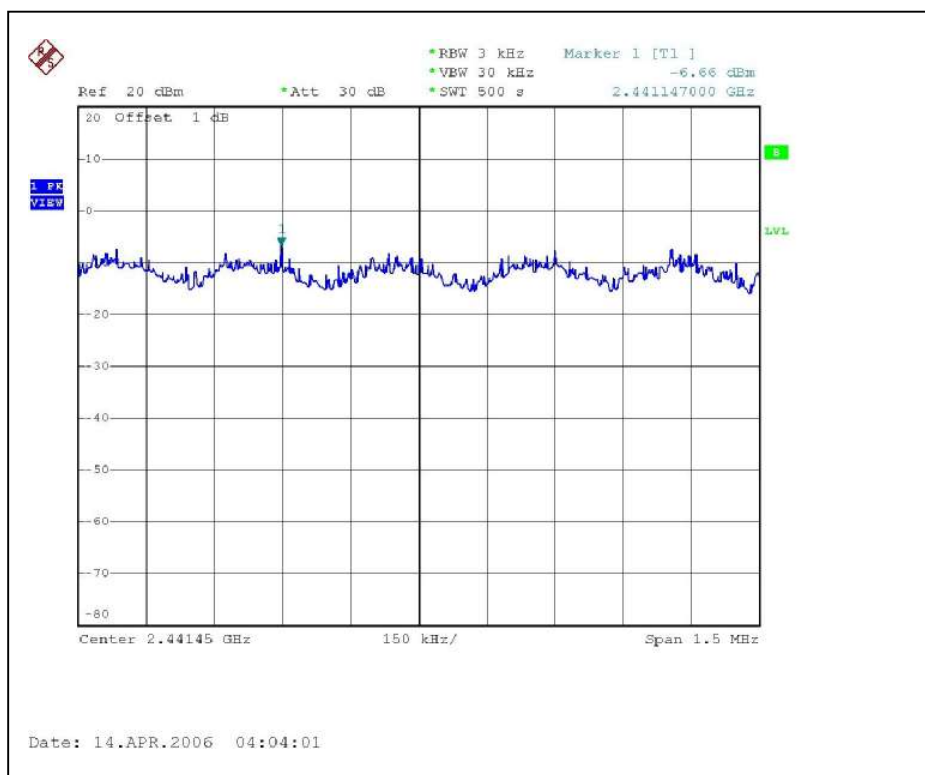
CH11



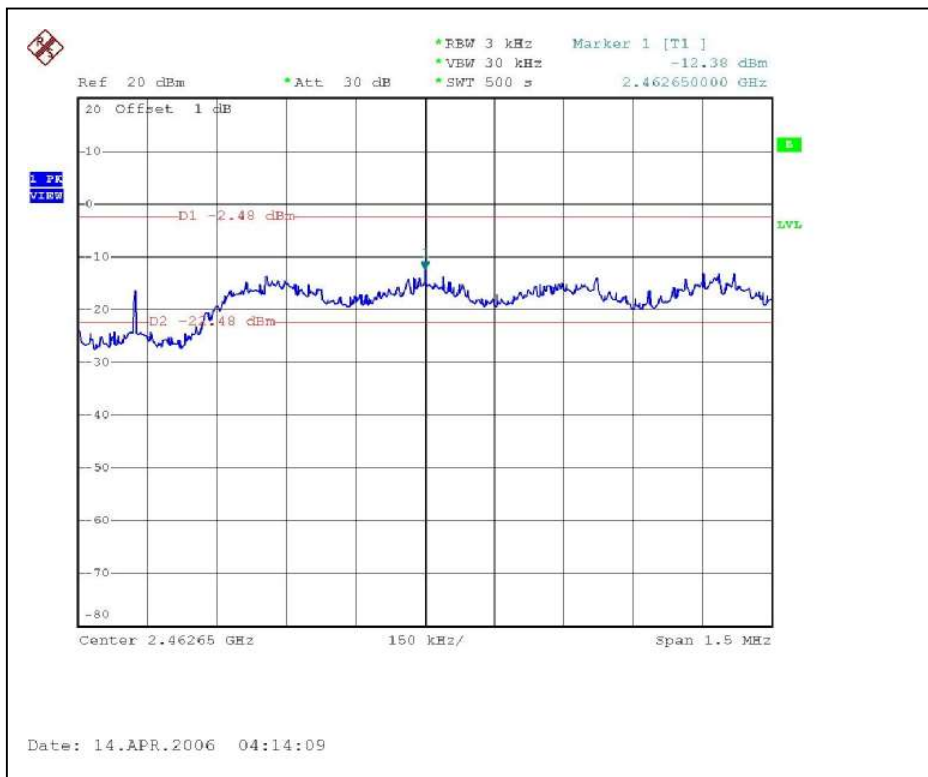
FOR CHAIN 2: CH1



CH6



CH11



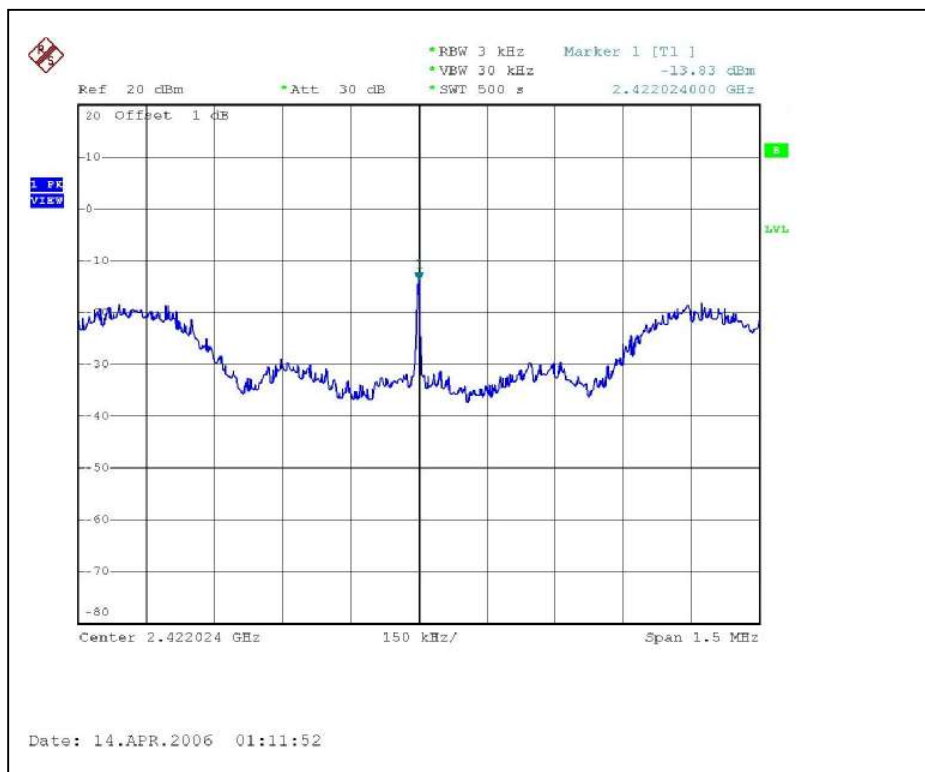


DRAFT 802.11n (40MHz) OFDM MODULATION:

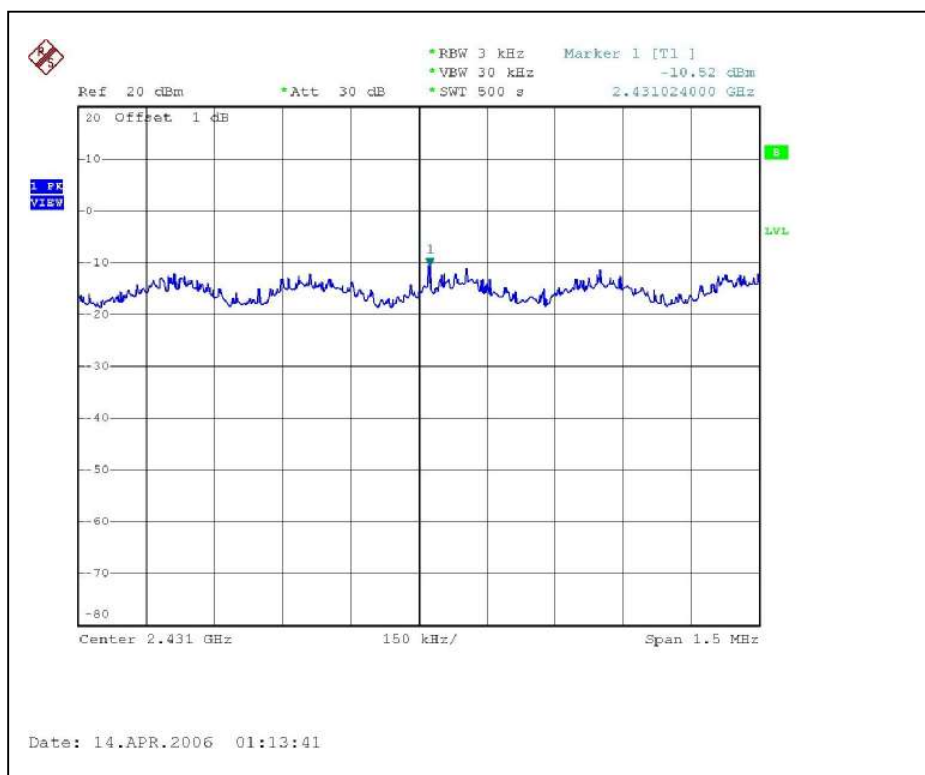
MODULATION TYPE	BPSK	TRANSFER RATE	13.5Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 70%RH, 964hPa
TESTED BY	Moris Lin		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)			MAXIMUM LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2422	-13.83	-14.05	-16.07	8	PASS
4	2437	-10.52	-12.29	-10.96	8	PASS
7	2452	-17.17	-16.40	-15.38	8	PASS

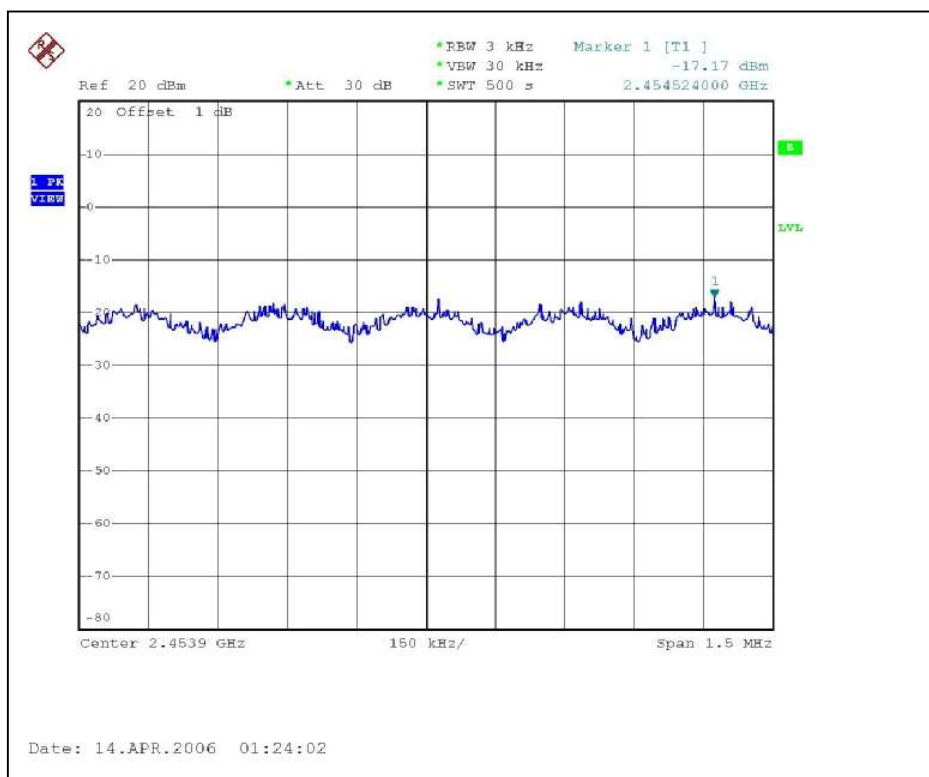
FOR CHAIN 0: CH1



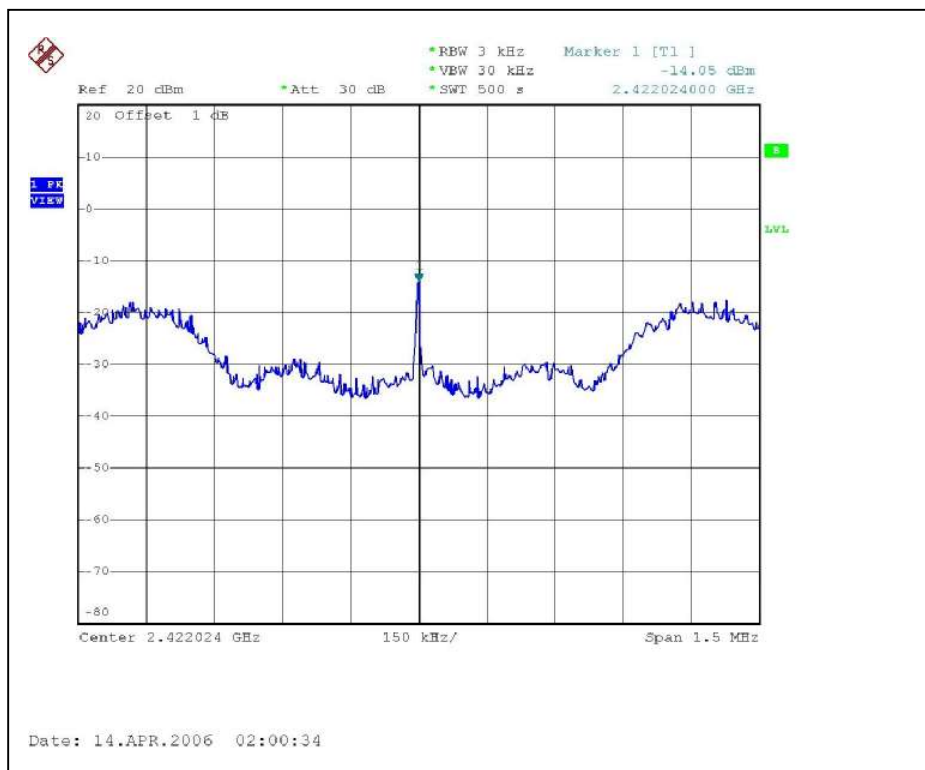
CH4



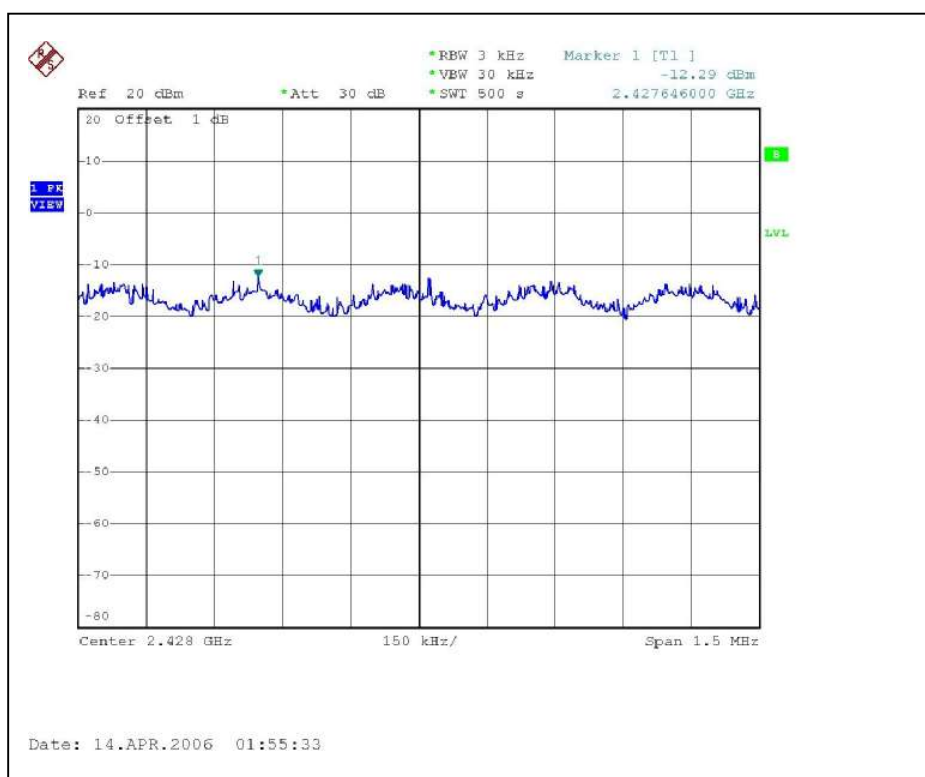
CH7



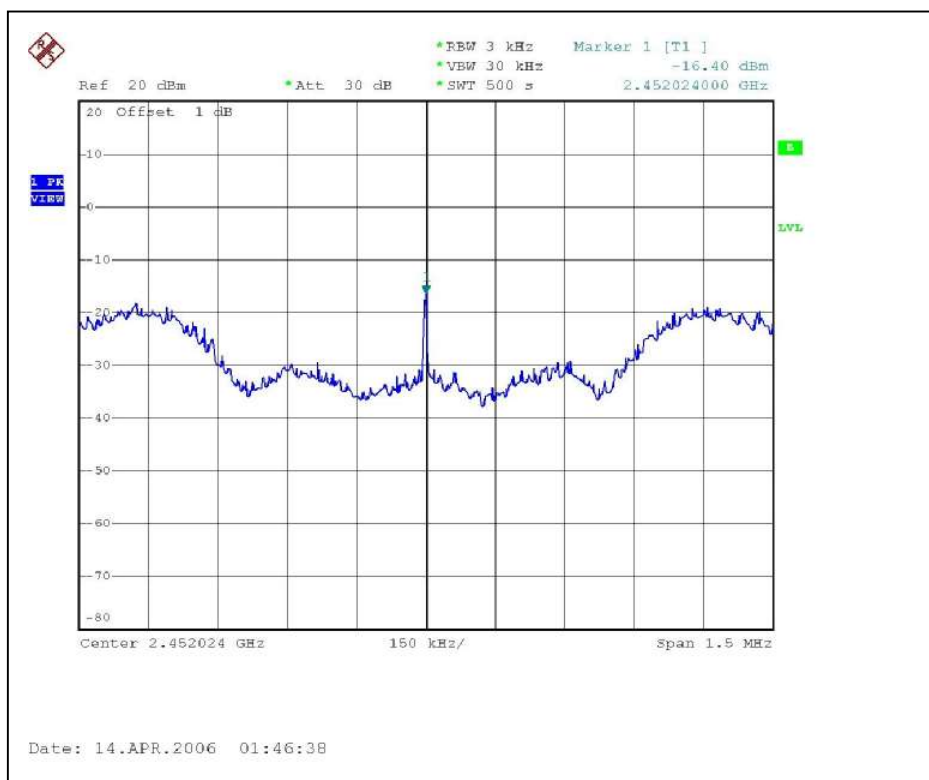
FOR CHAIN 1: CH1



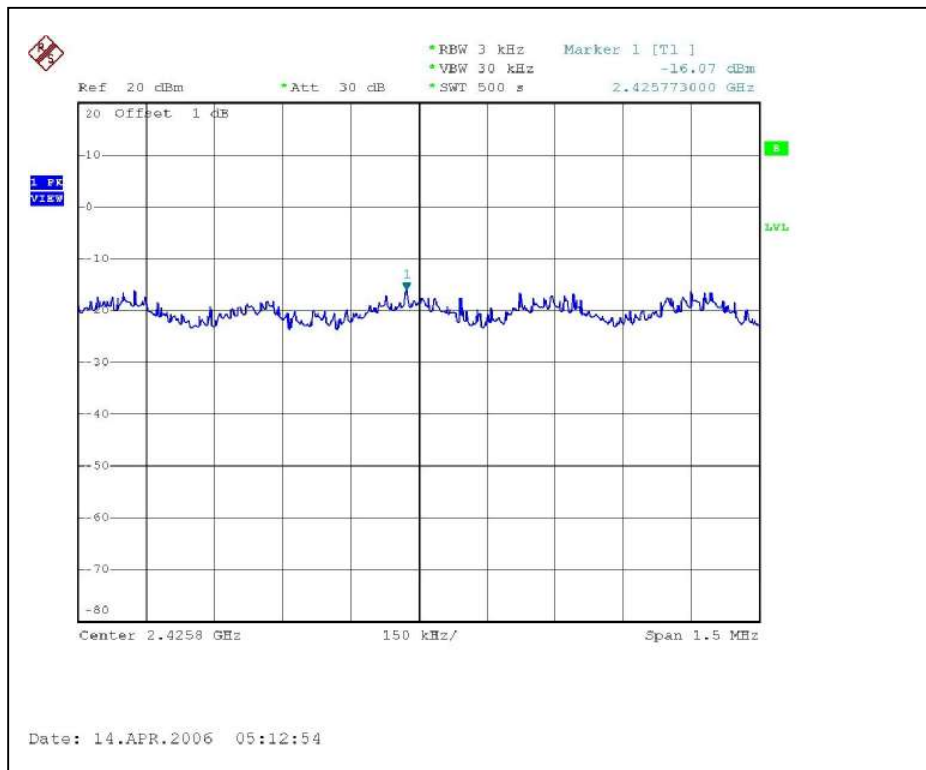
CH4



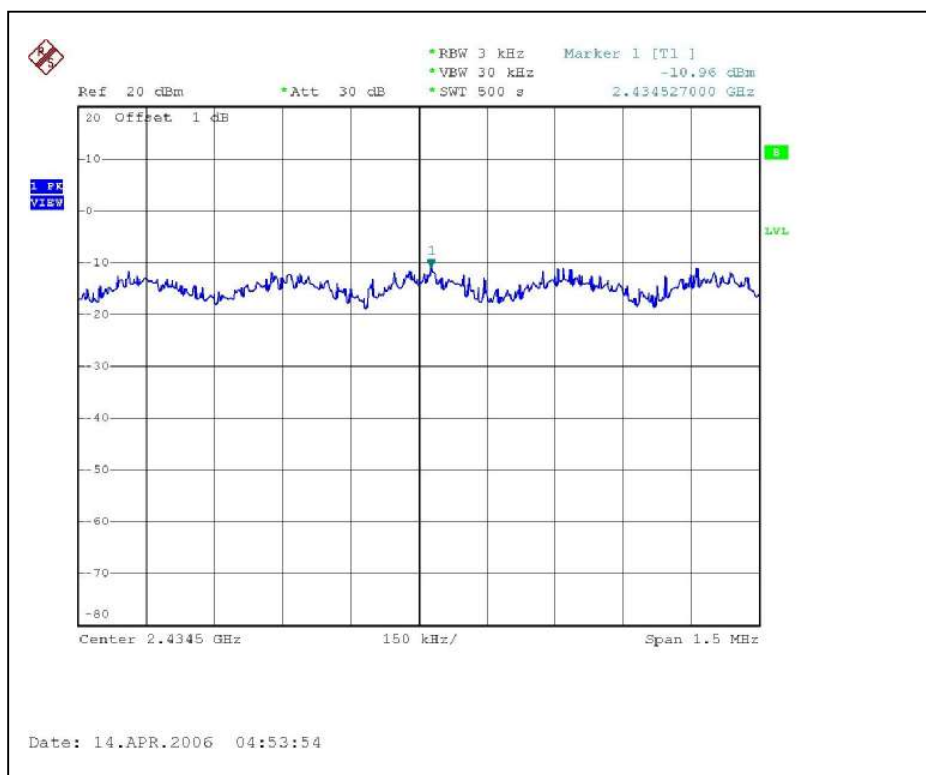
CH7



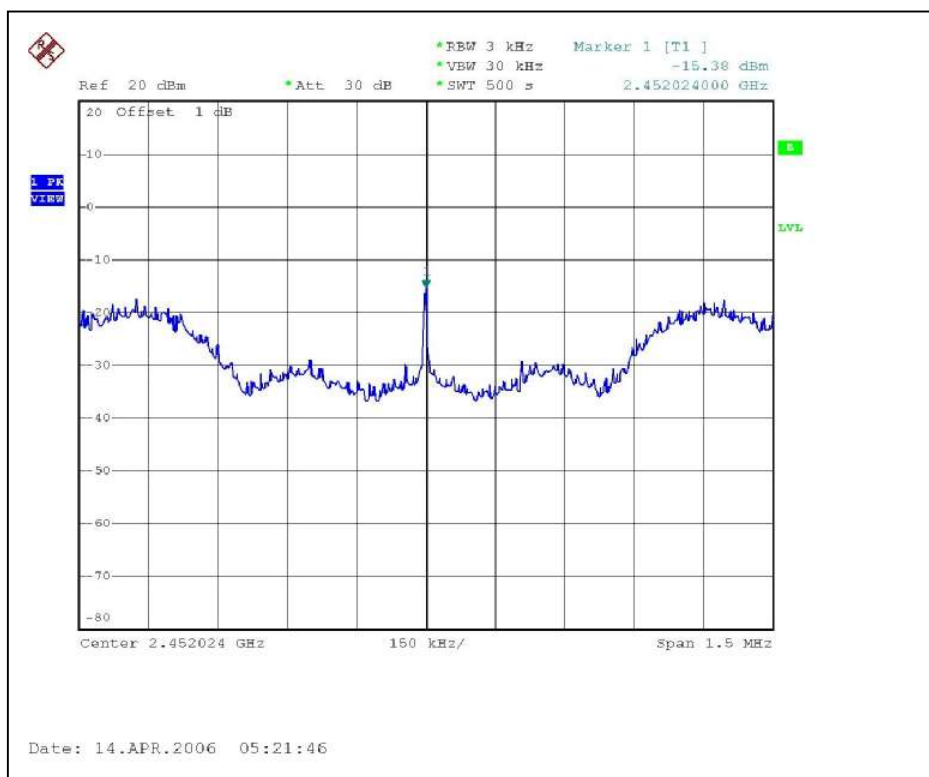
FOR CHAIN 2: CH1



CH4



CH7



4.6 CONDUCTED EMISSION AND BAND EDGES MEASUREMENT

4.6.1 LIMITS OF CONDUCTED EMISSION AND BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006

NOTE:

- 1.The measurement uncertainty is less than $\pm 2.6\text{dB}$, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (RBW = VBW = 100kHz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

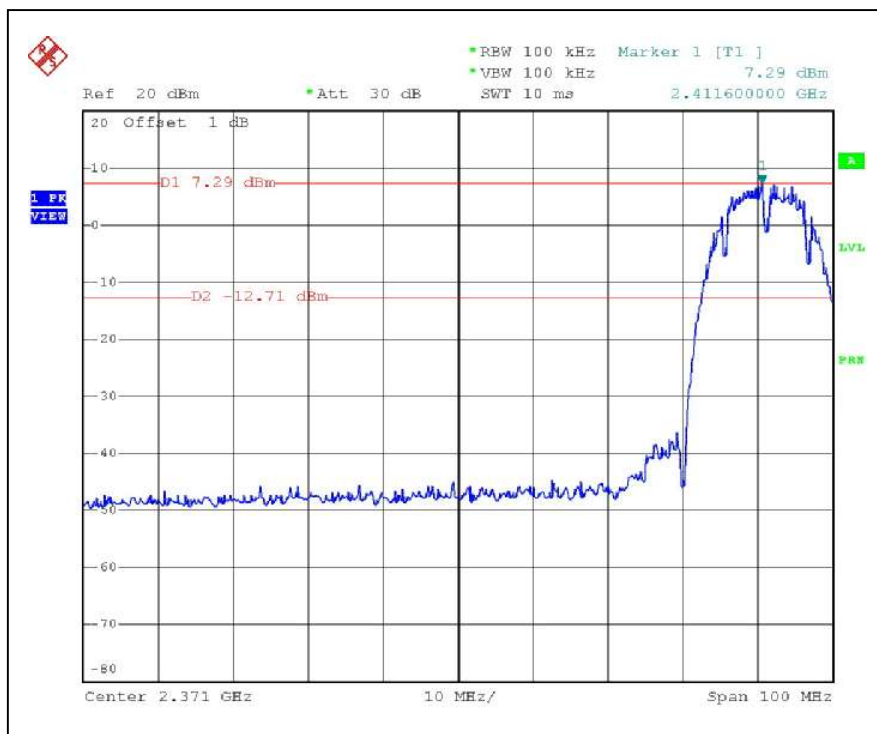
4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

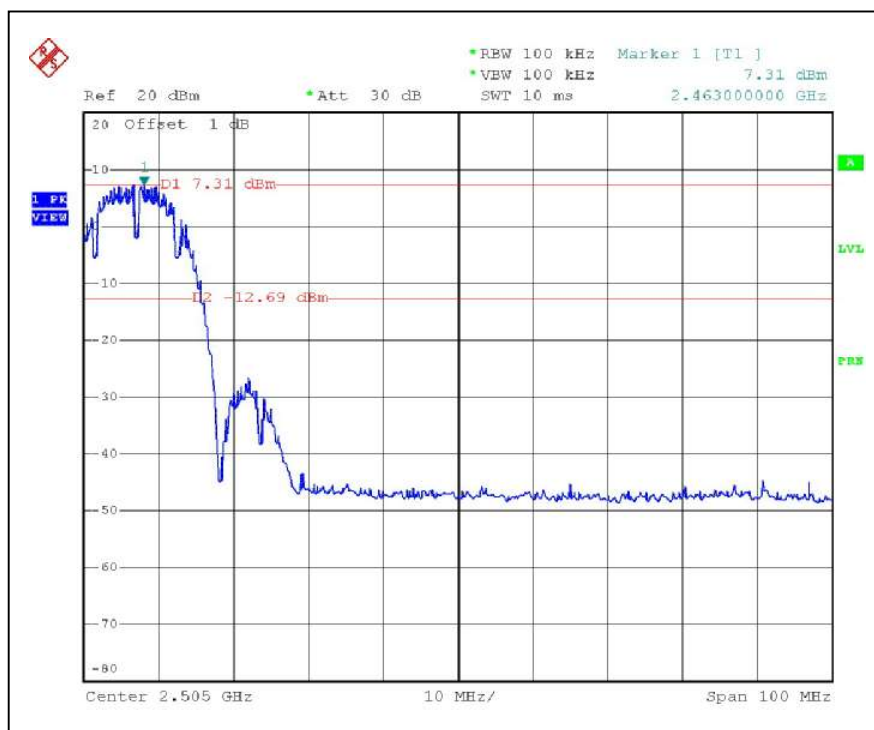
4.6.6 TEST RESULTS

The spectrum plots are attached on the following 12 images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

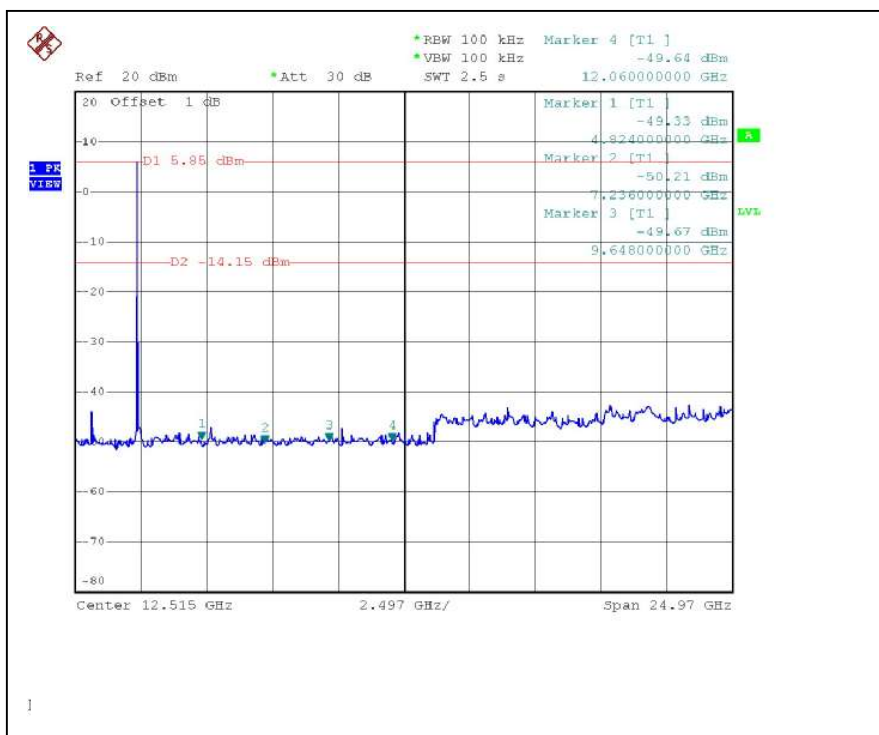
**802.11b DSSS MODULATION:
FOR CHAIN 0:CH1**



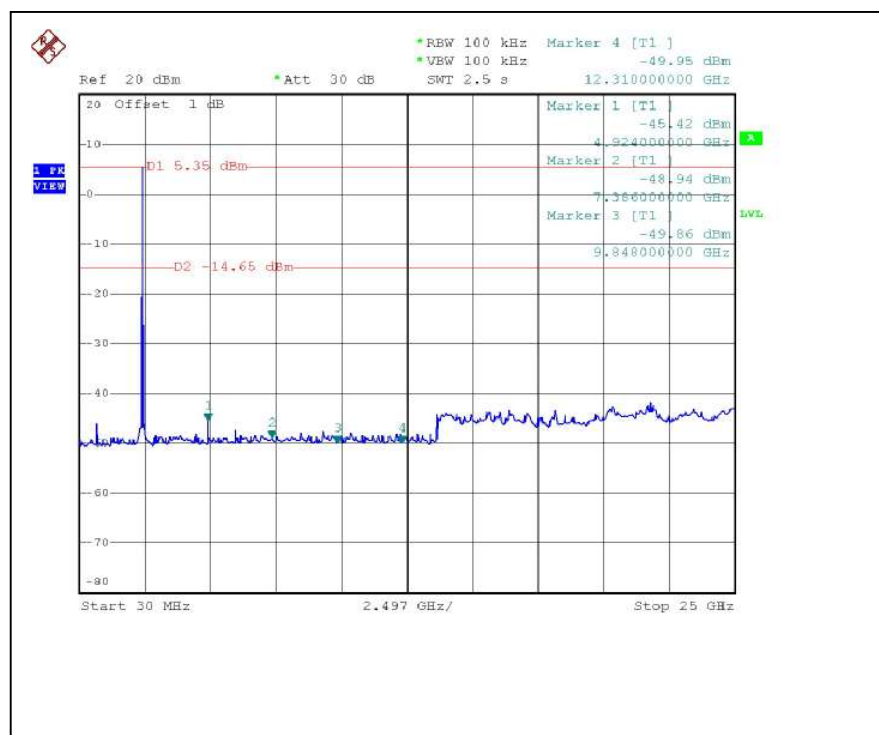
CH11



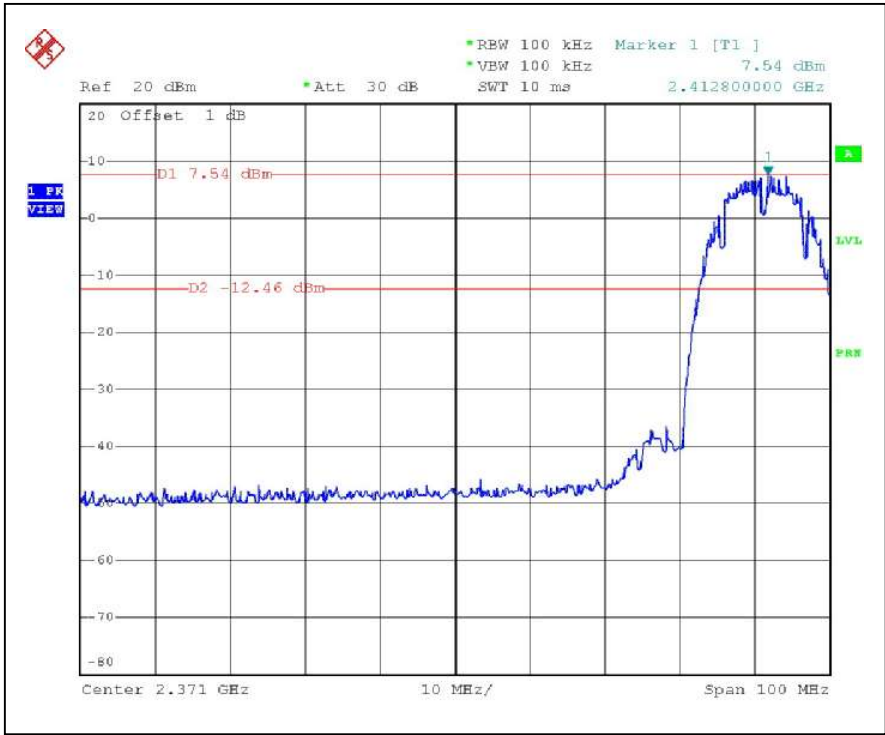
CH1



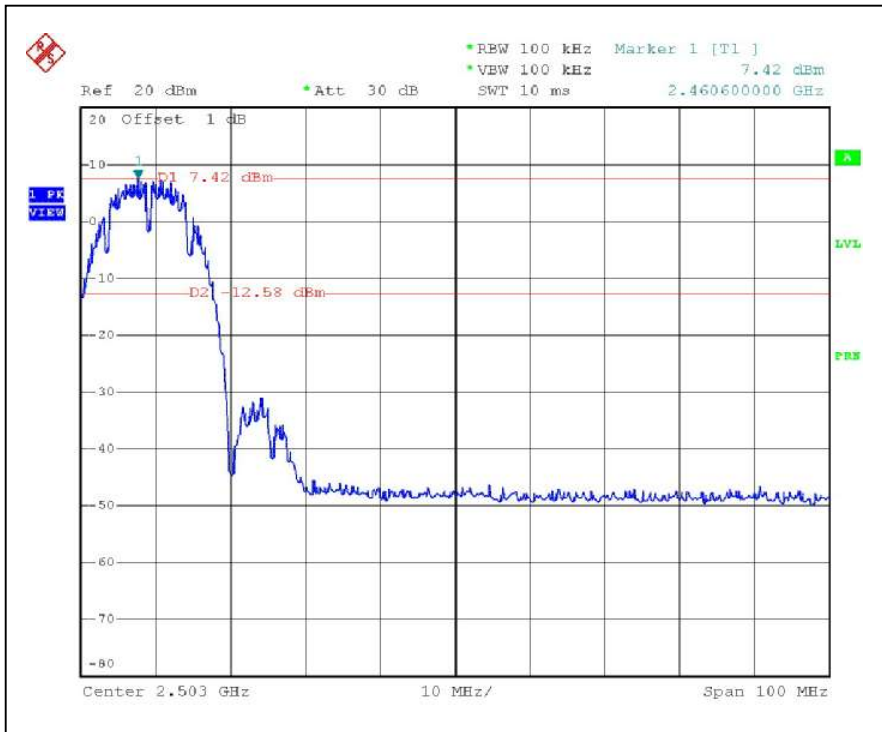
CH11



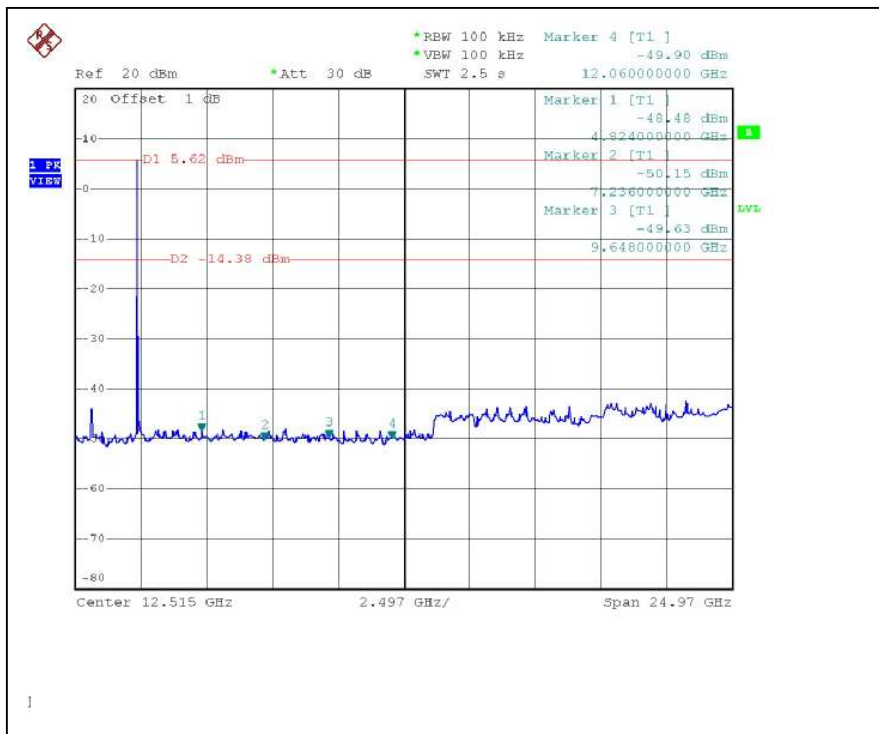
FOR CHAIN 1:CH1



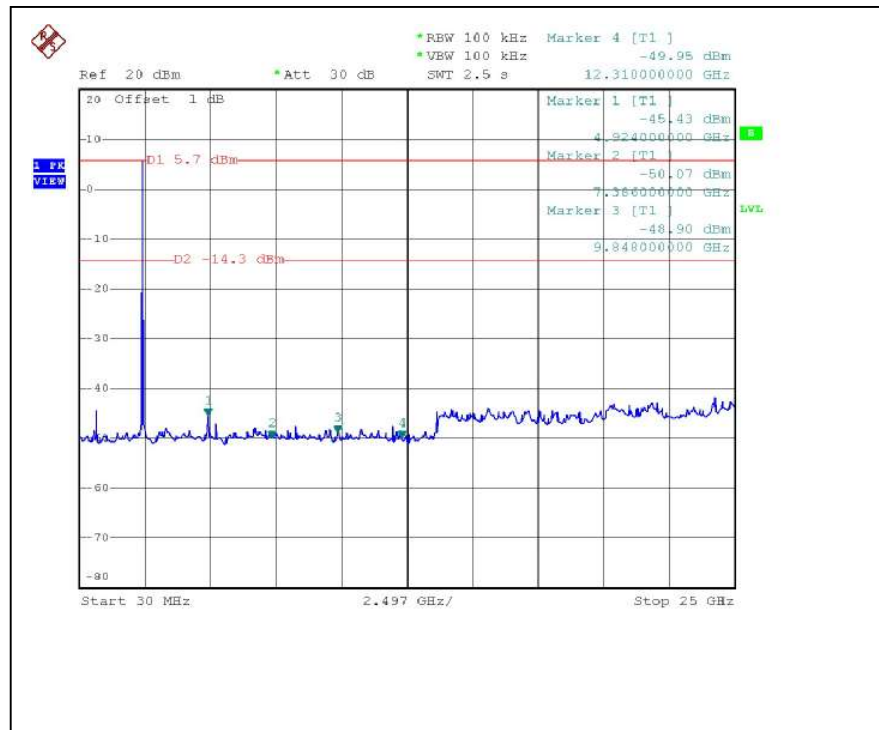
CH11



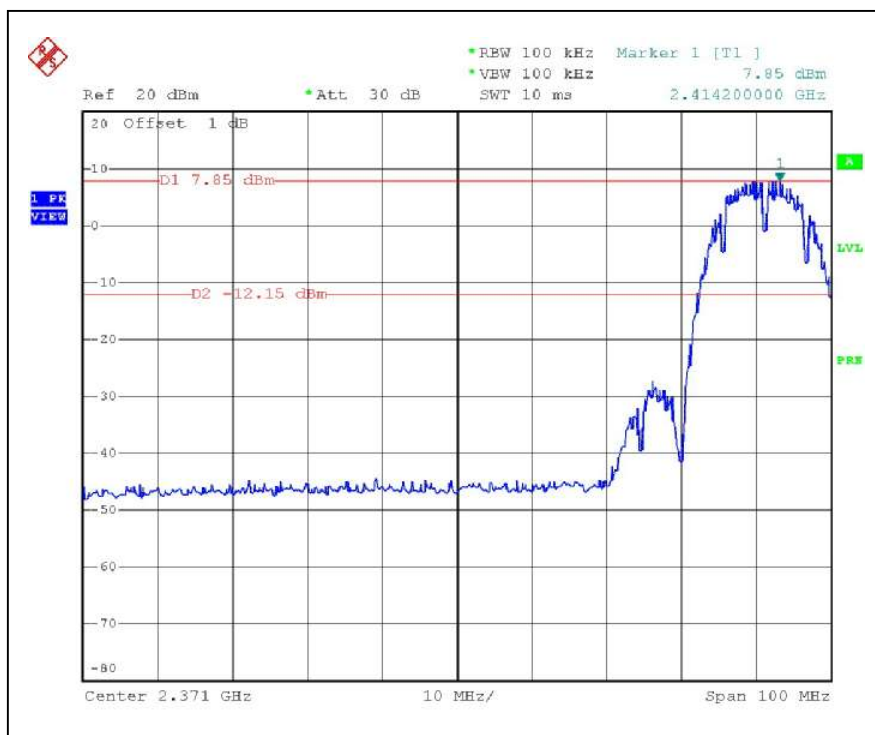
CH1



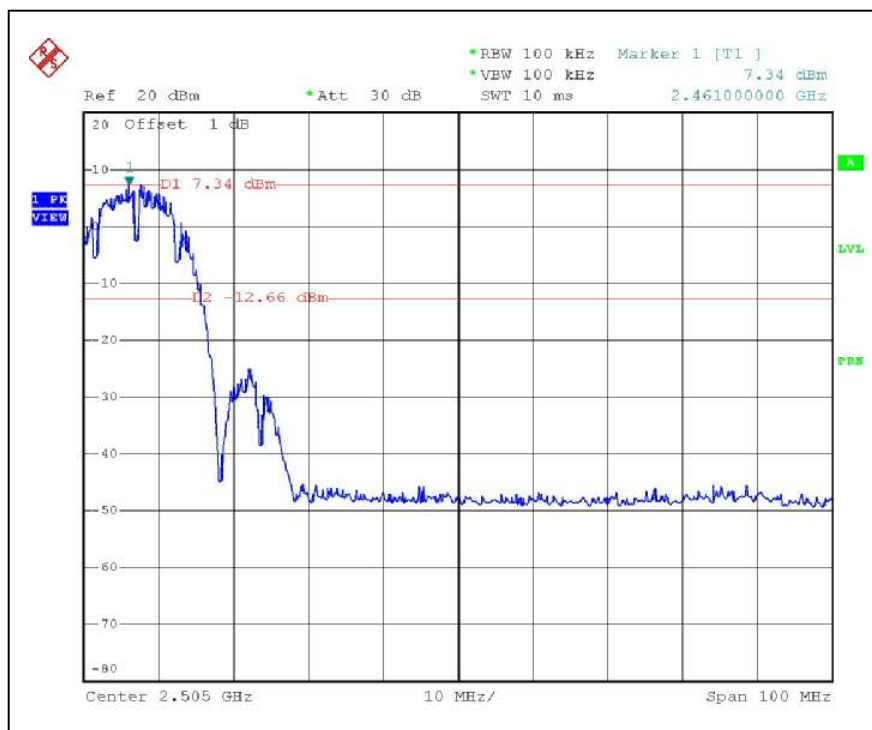
CH11



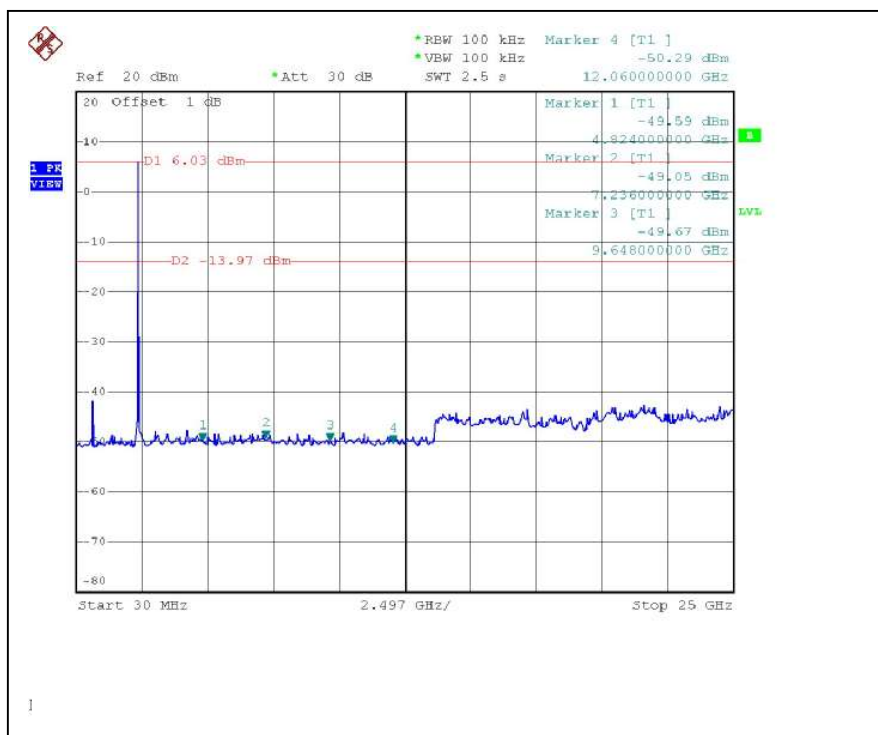
FOR CHAIN 2:CH1



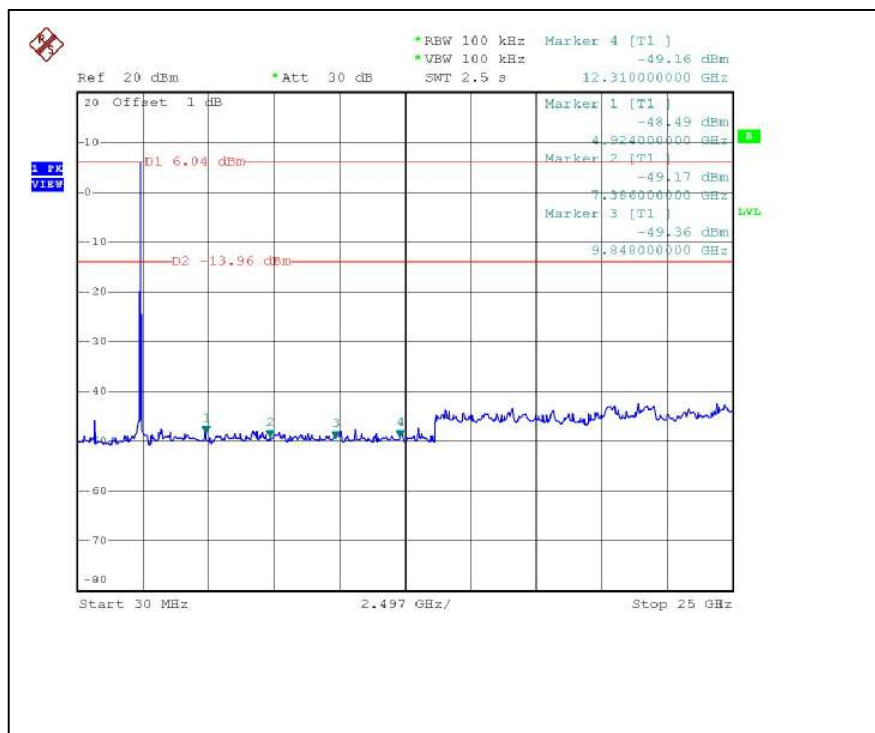
CH11



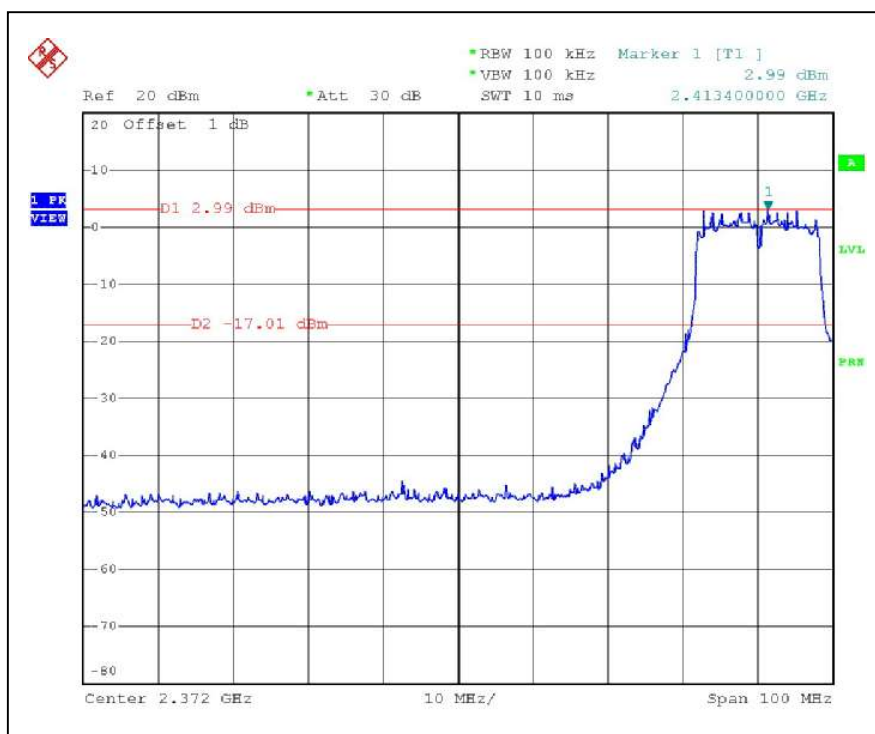
CH1



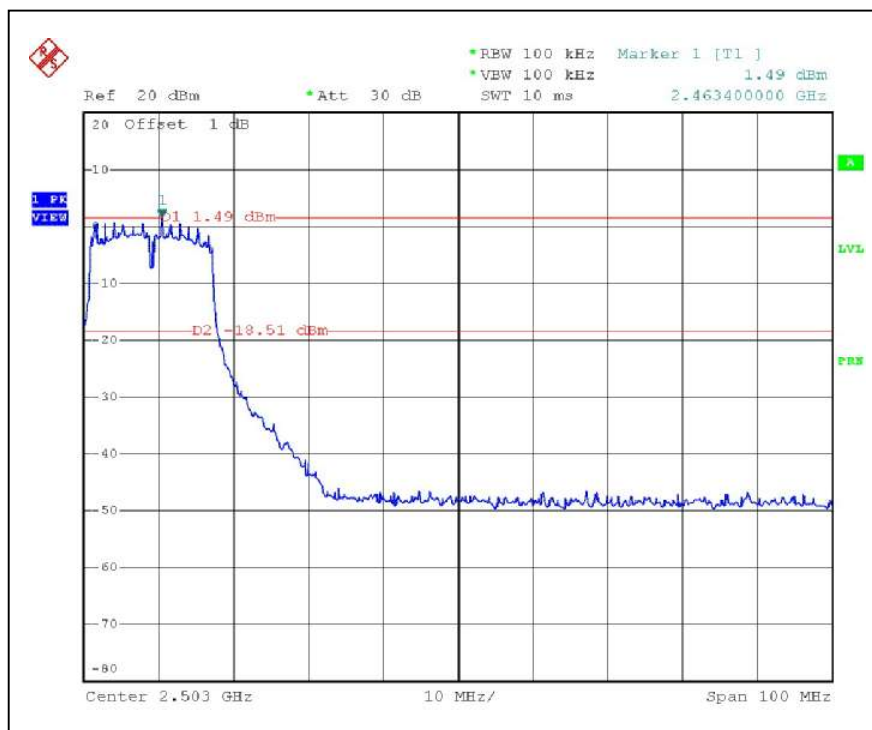
CH11



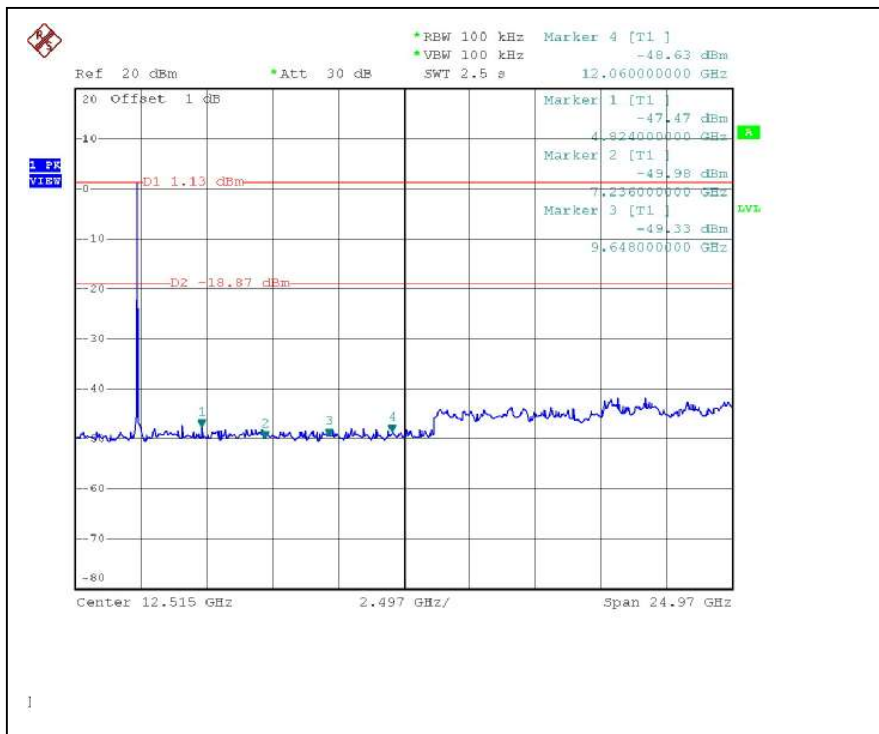
802.11g OFDM MODULATION: FOR CHAIN 0:CH1



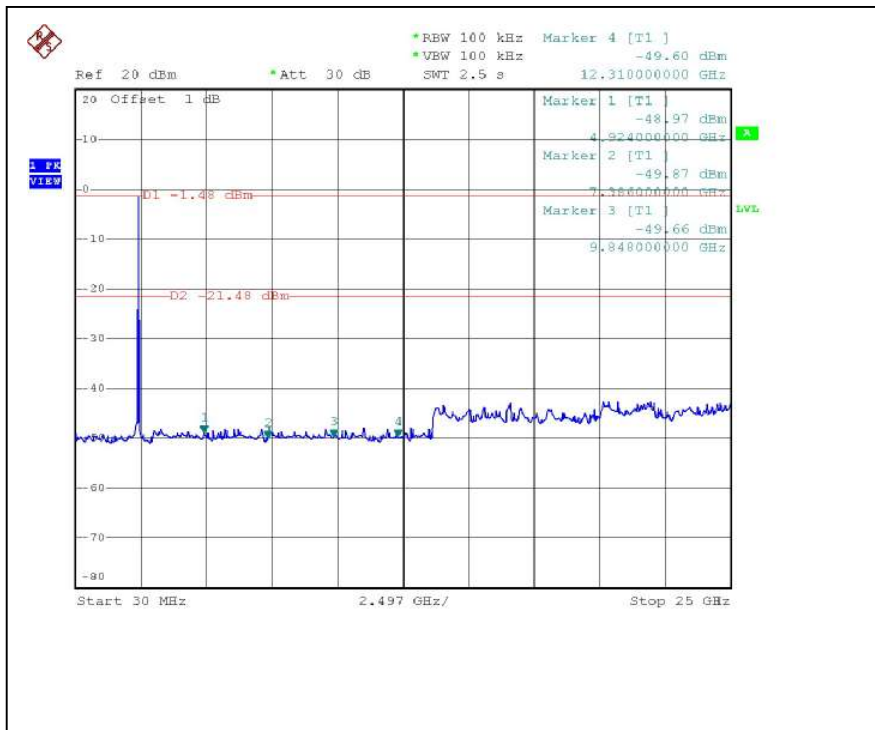
CH11



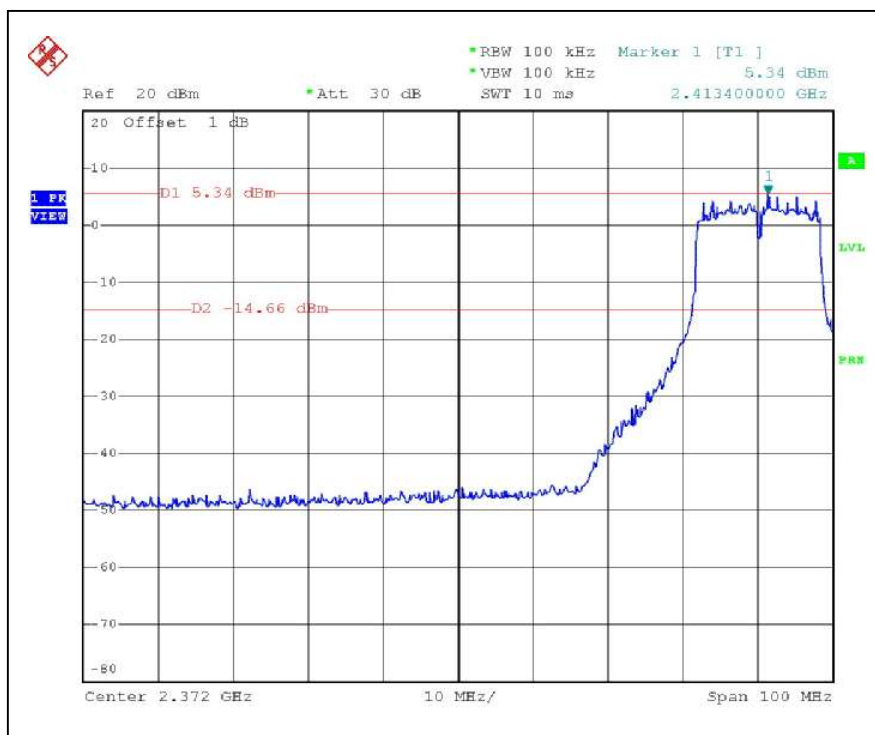
CH1



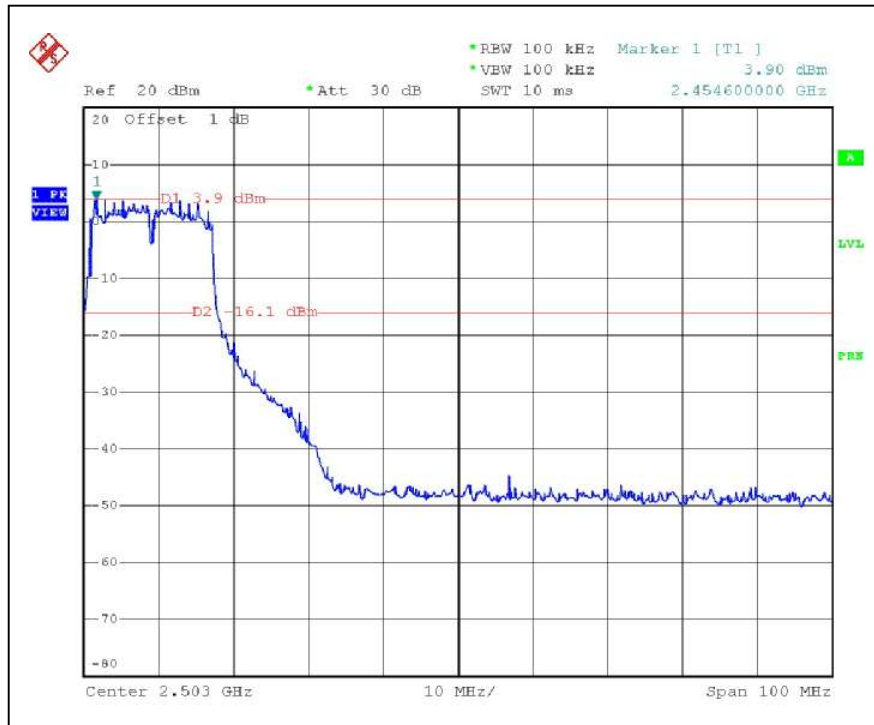
CH11



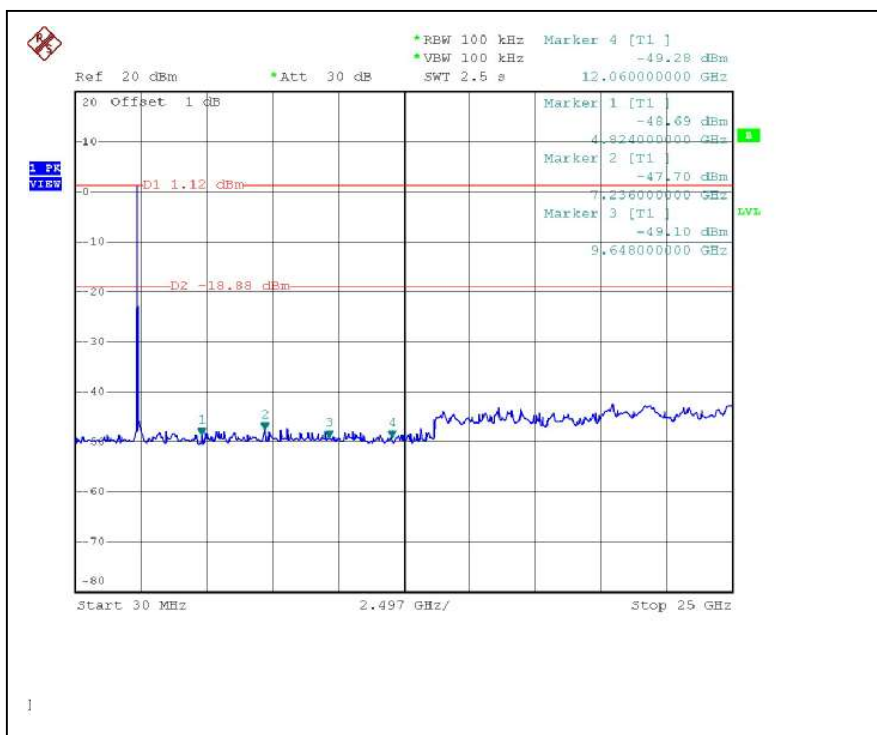
FOR CHAIN 1:CH1



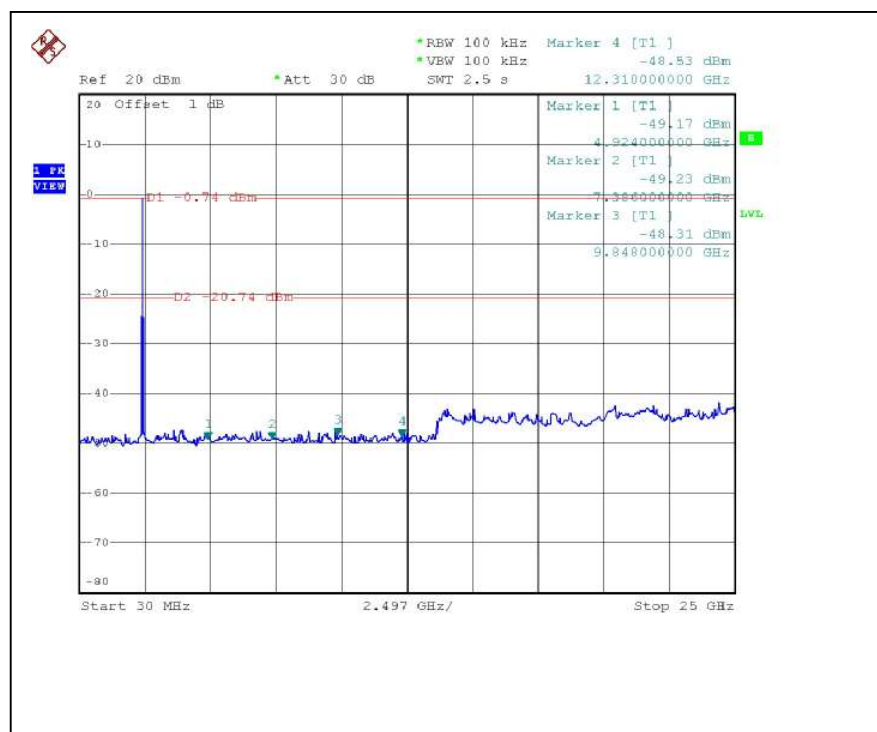
CH11



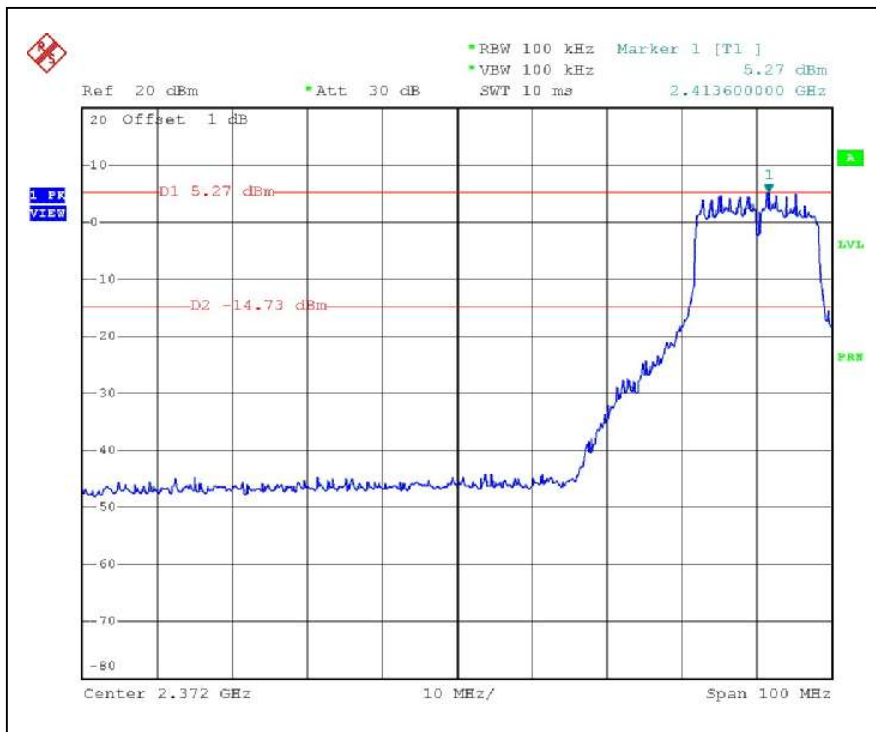
CH1



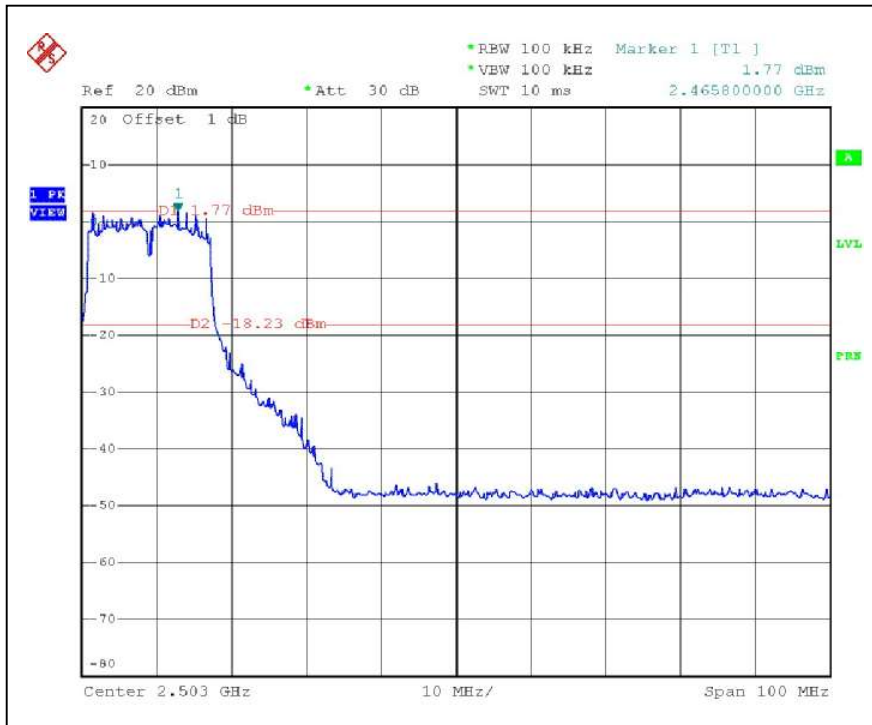
CH11



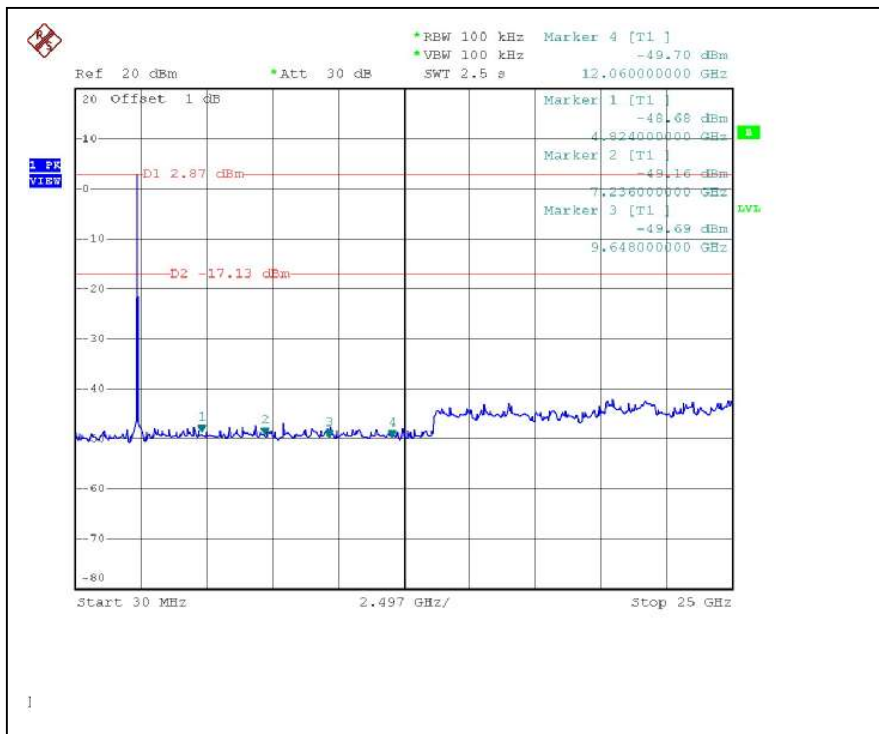
FOR CHAIN 2:CH1



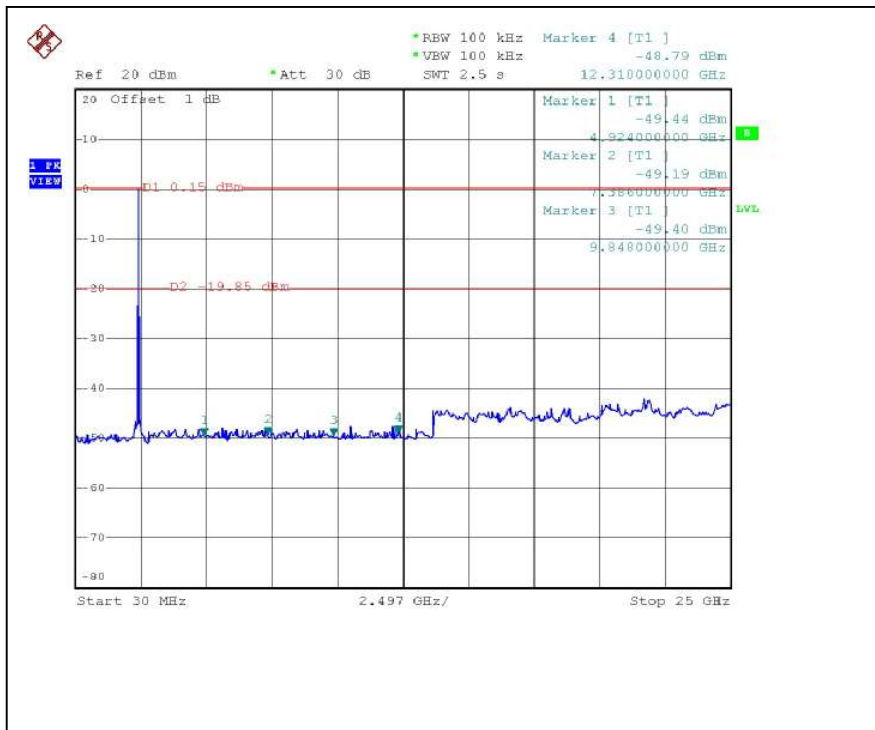
CH11



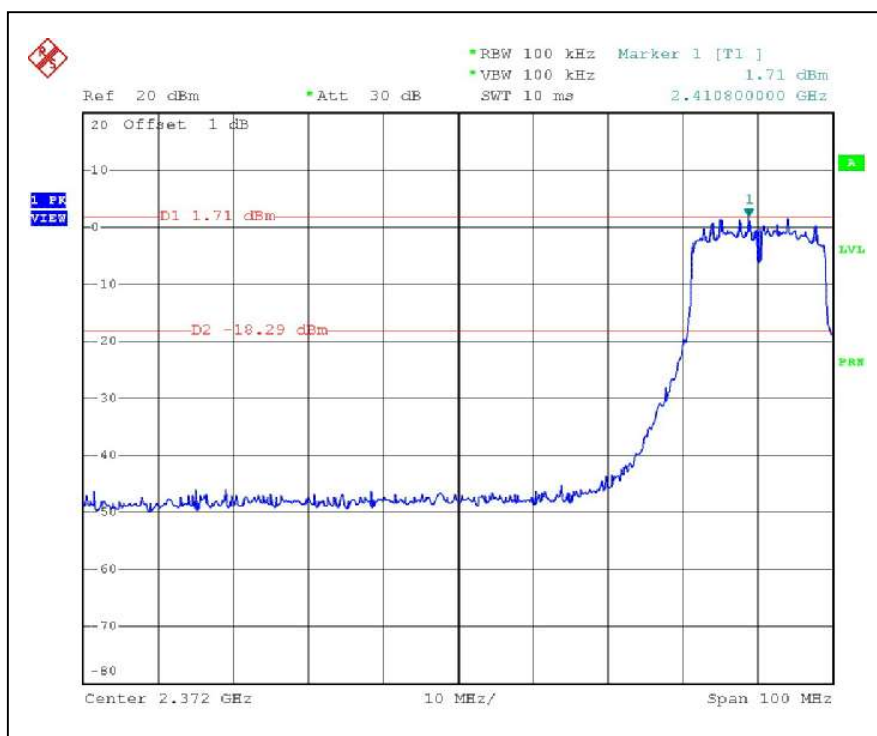
CH1



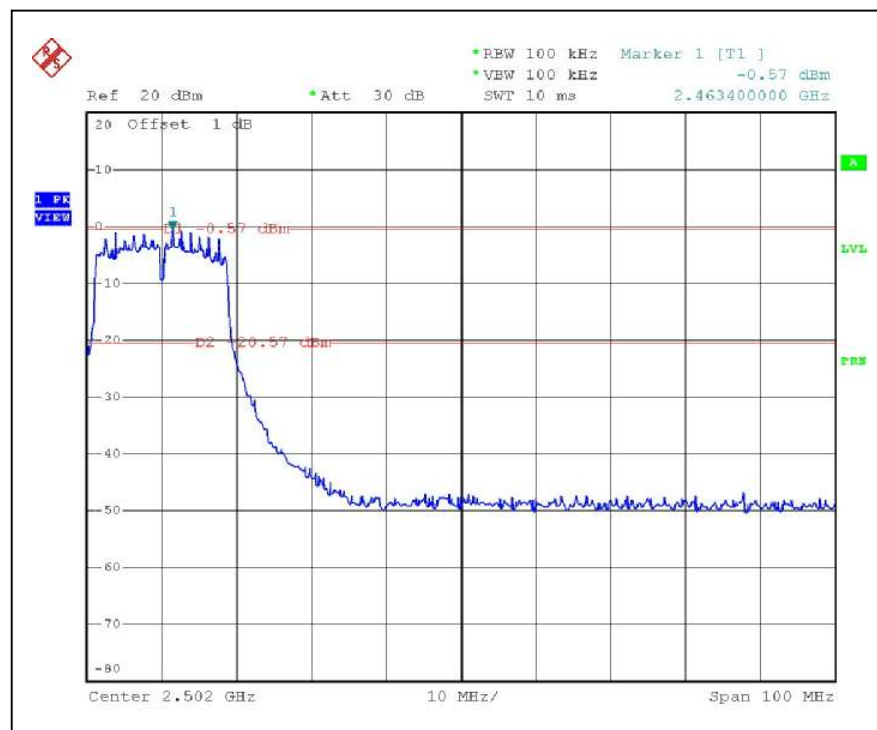
CH11



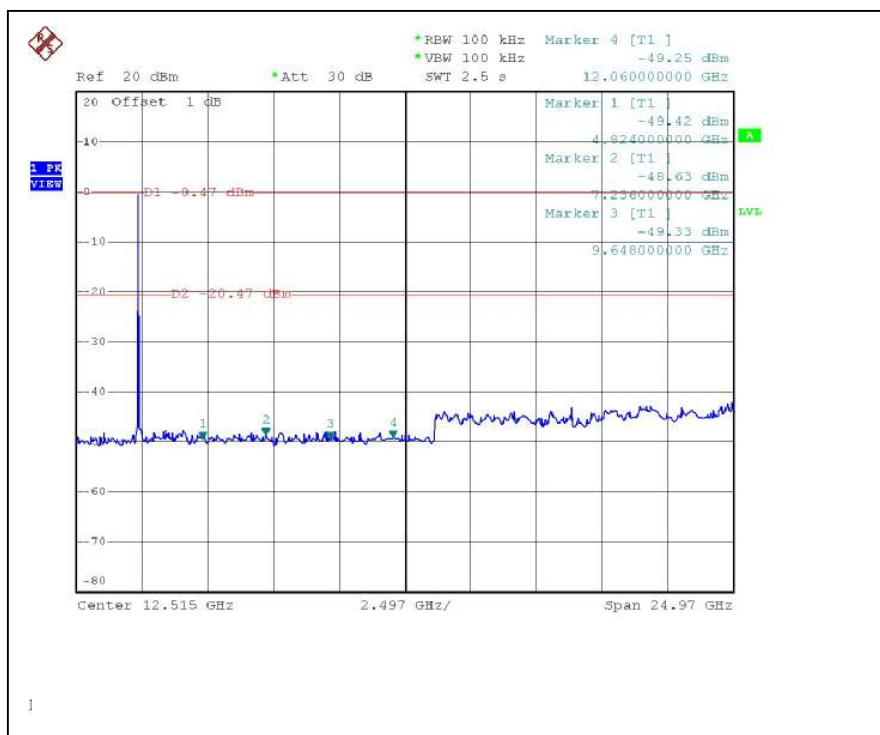
**DRAFT 802.11n (20MHz) OFDM MODULATION:
FOR CHAIN 0:CH1**



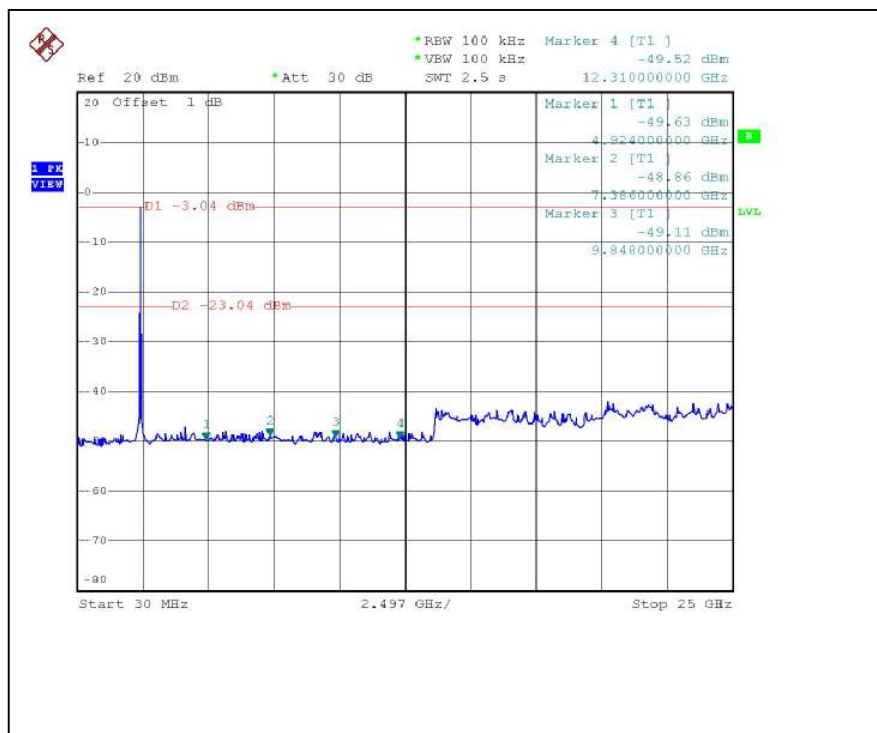
CH11



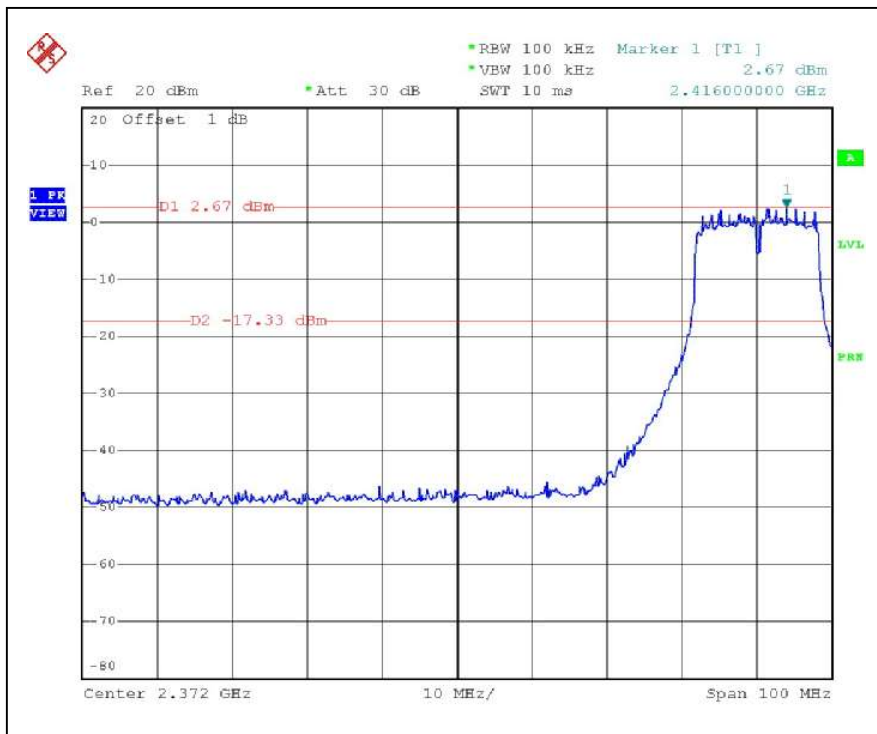
CH1



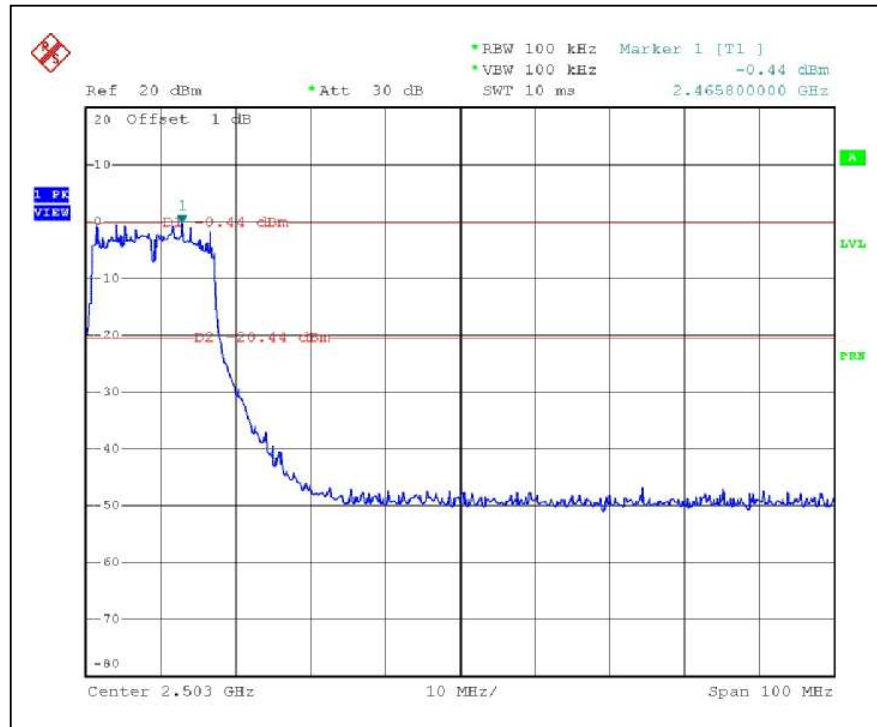
CH11



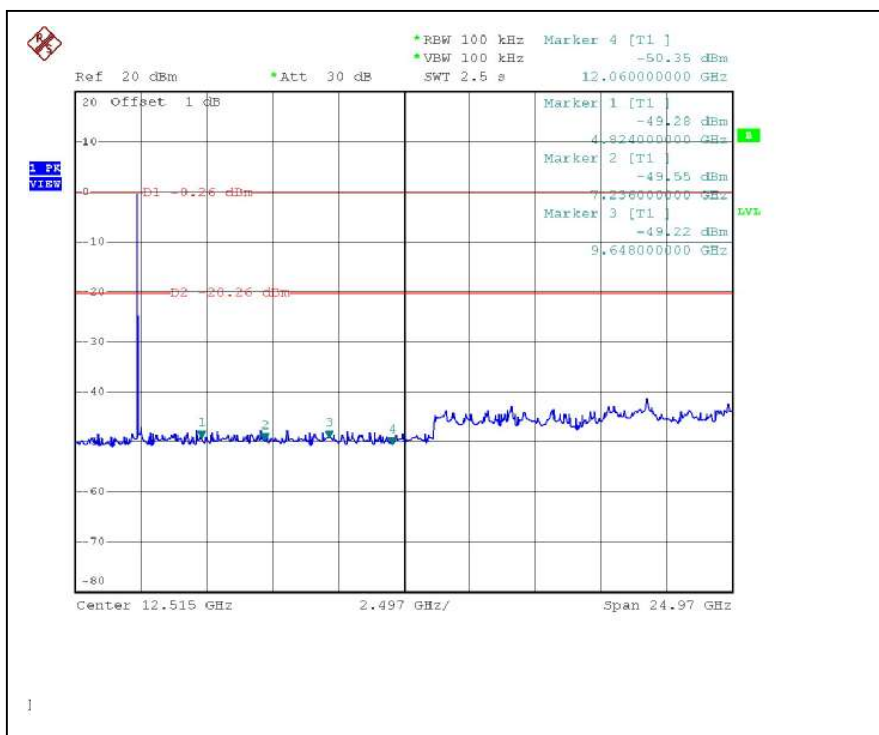
FOR CHAIN 1:CH1



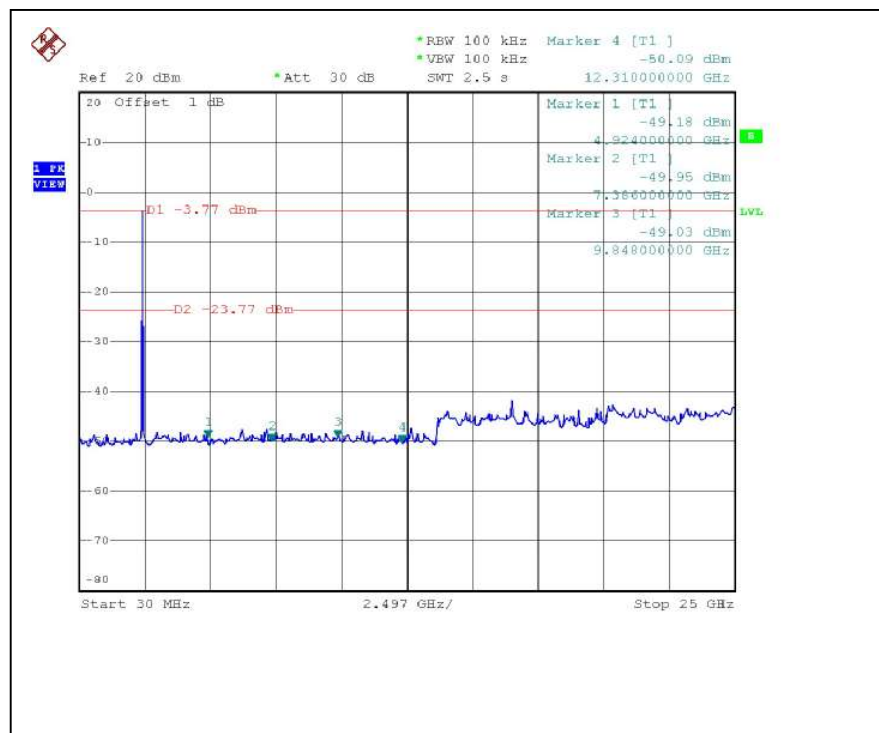
CH11



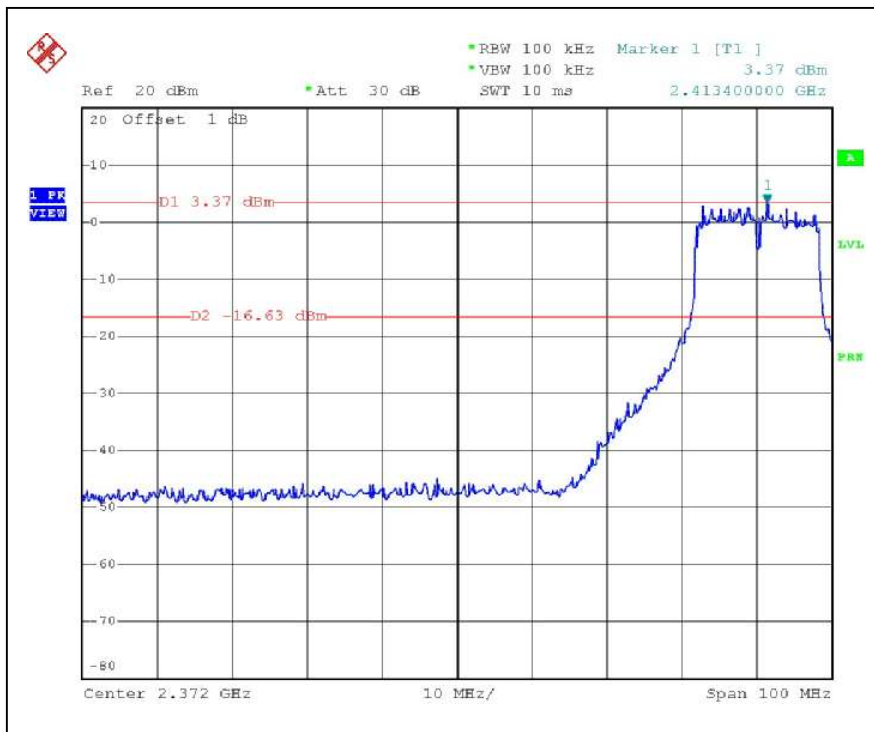
CH1



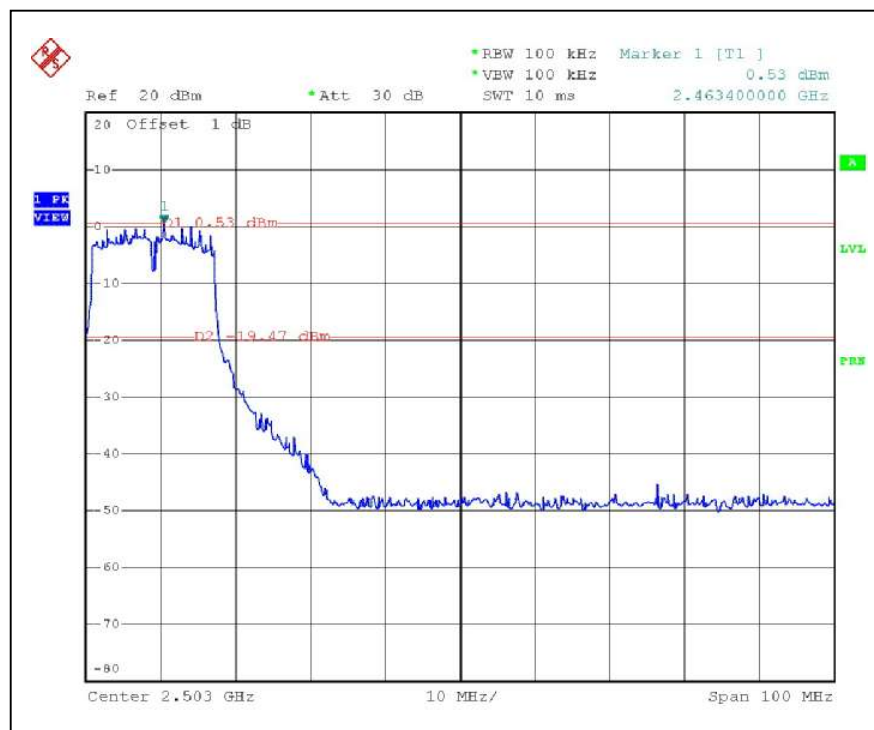
CH11



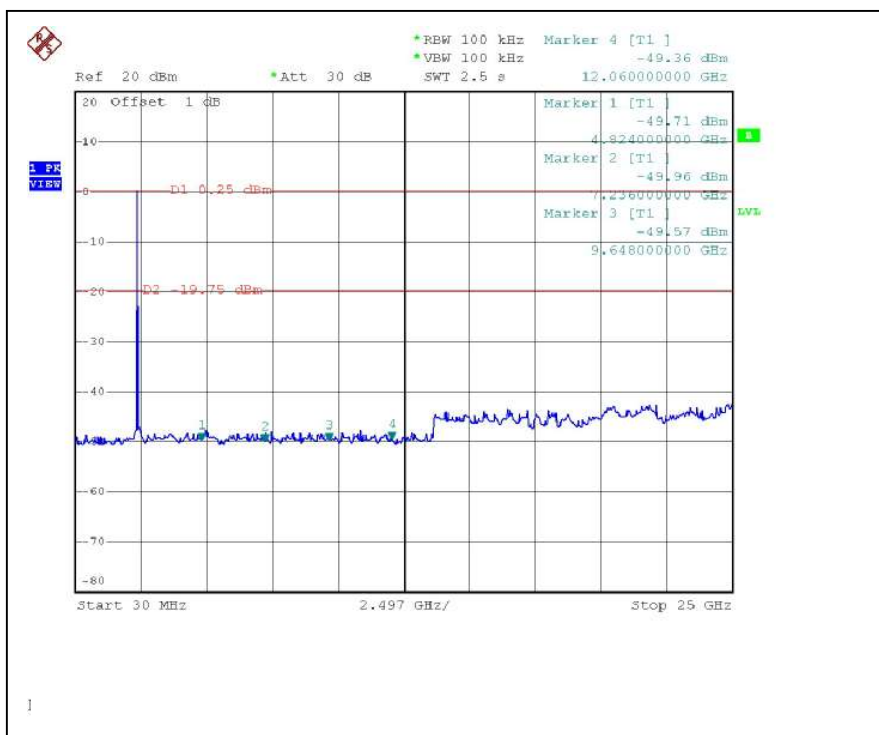
FOR CHAIN 2:CH1



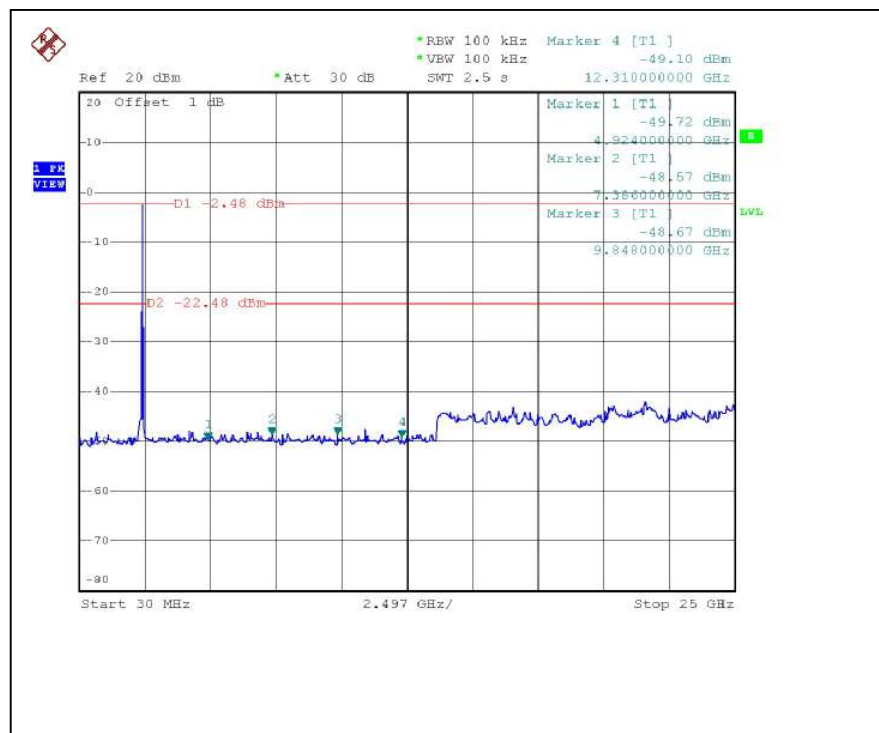
CH11



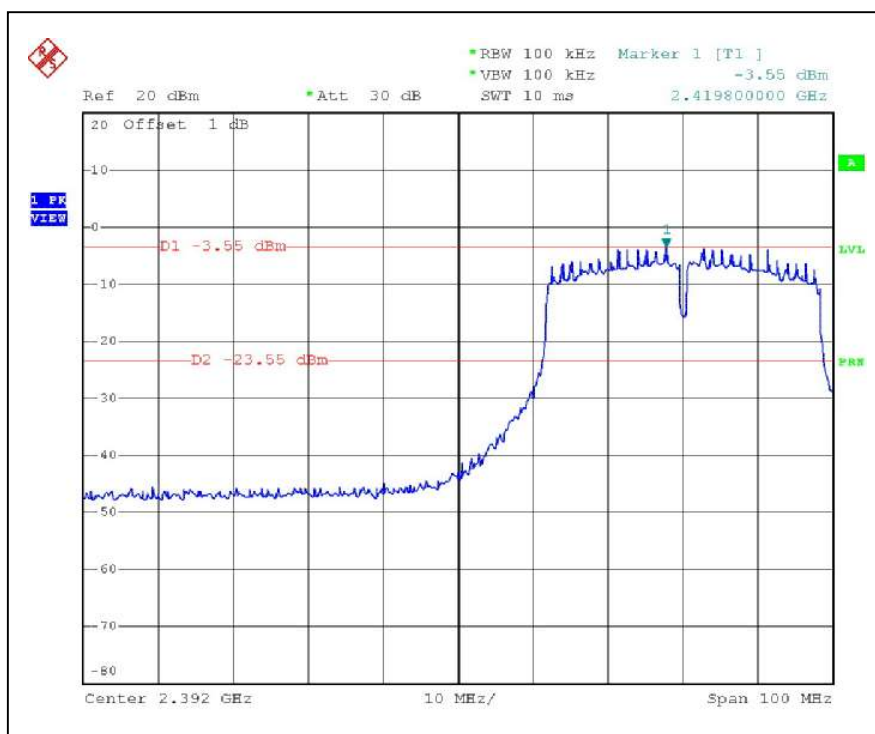
CH1



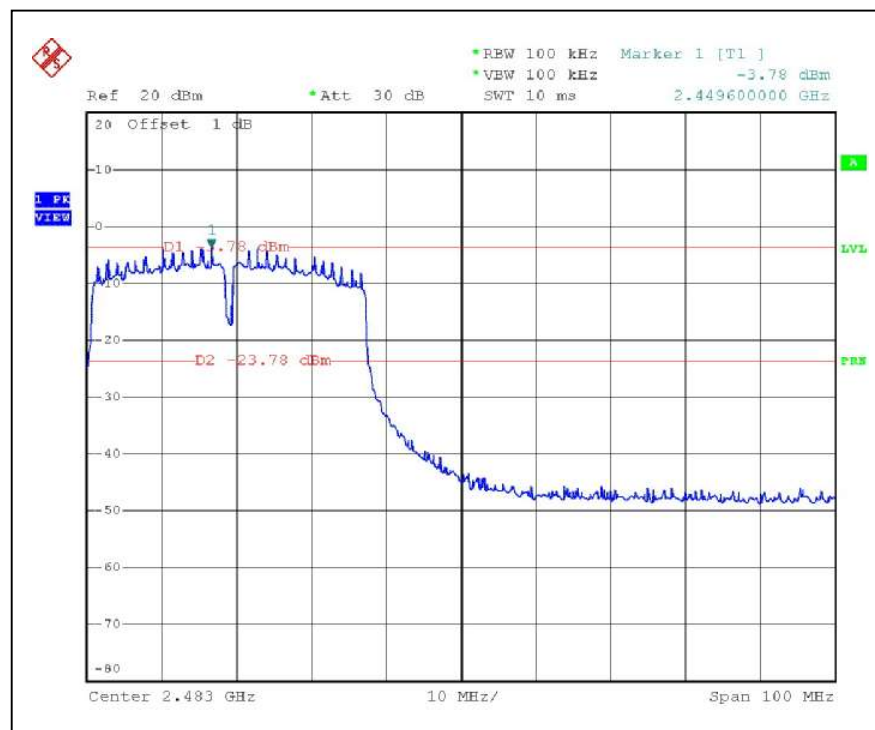
CH11



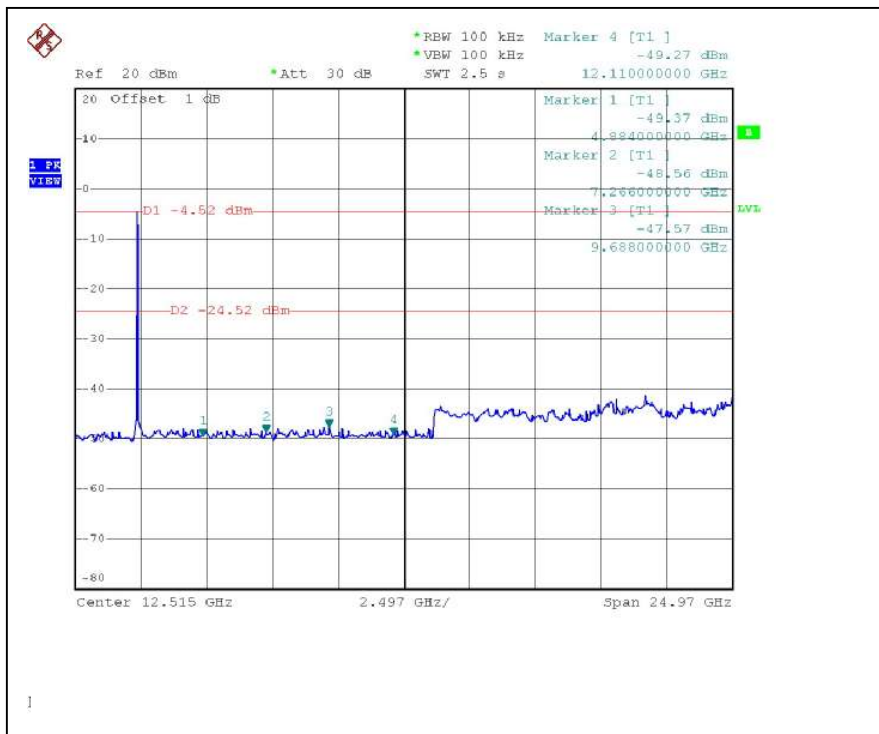
**DRAFT 802.11n (40MHz) OFDM MODULATION:
FOR CHAIN 0:CH1**



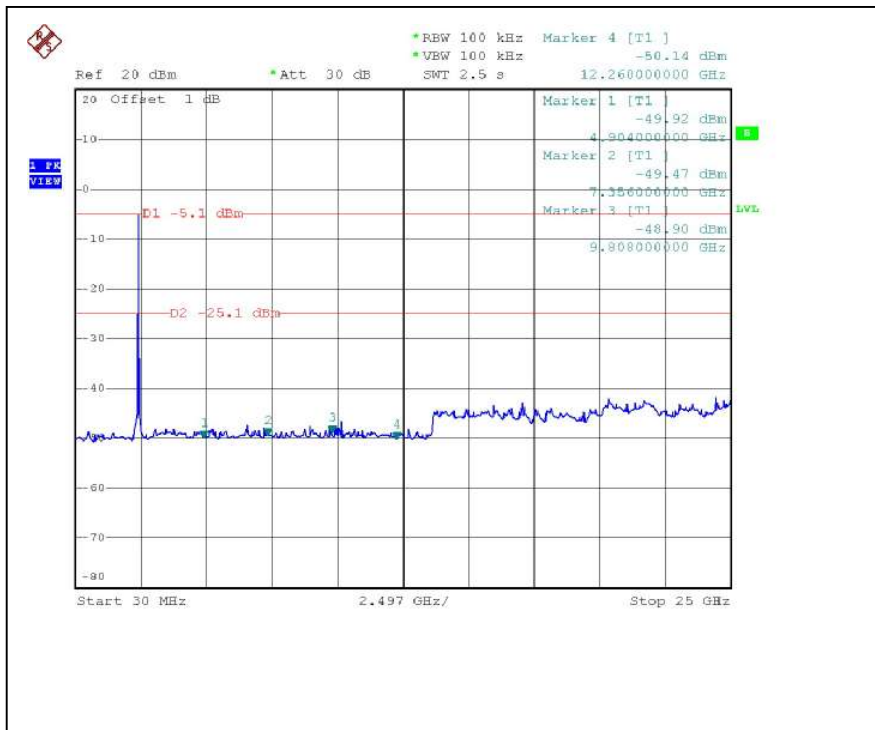
CH7



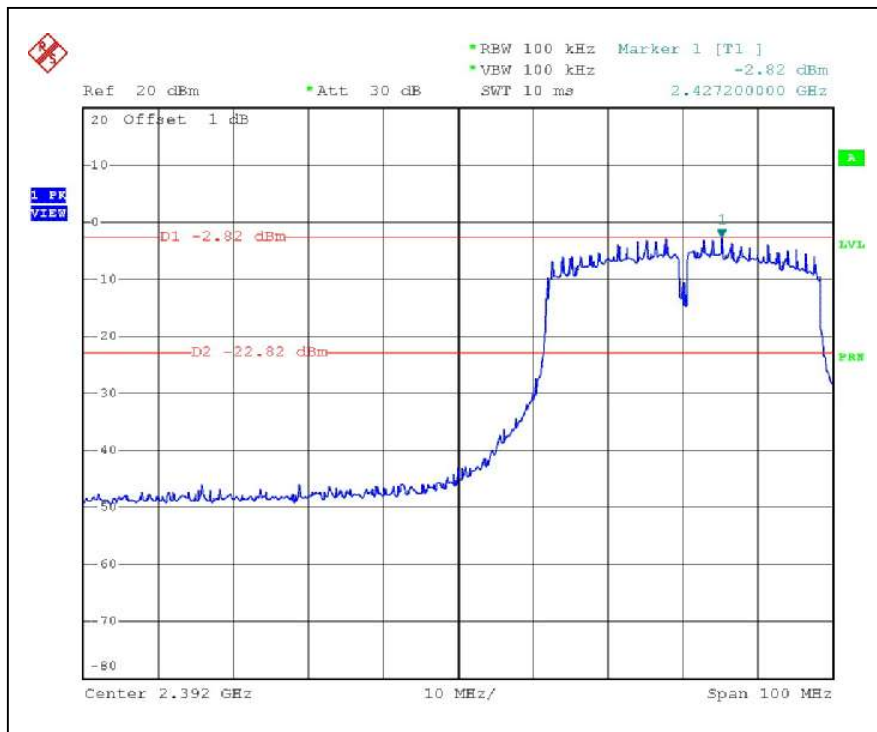
CH1



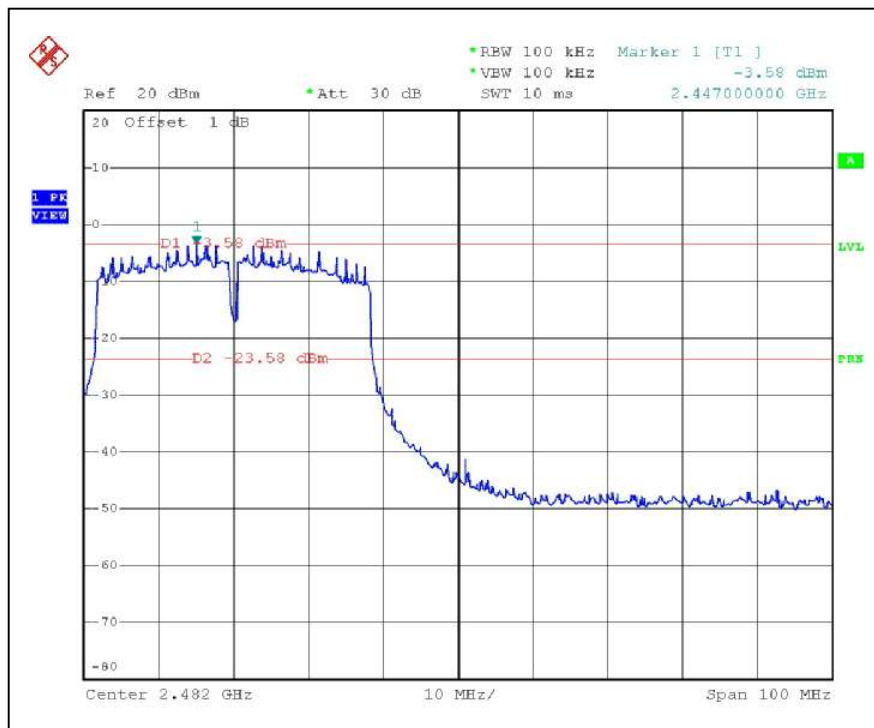
CH7



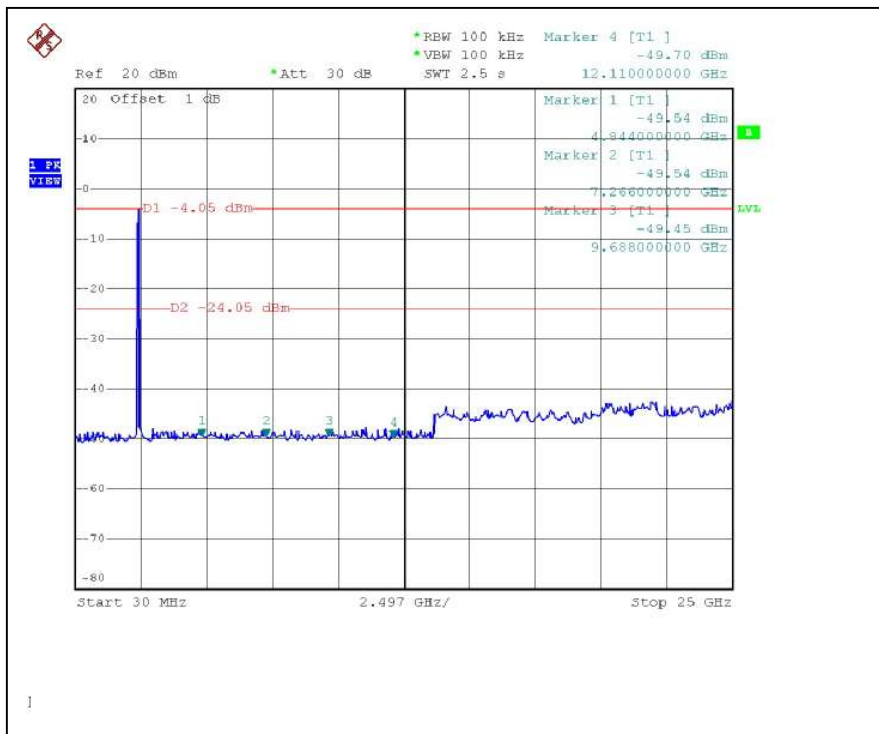
FOR CHAIN 1:CH1



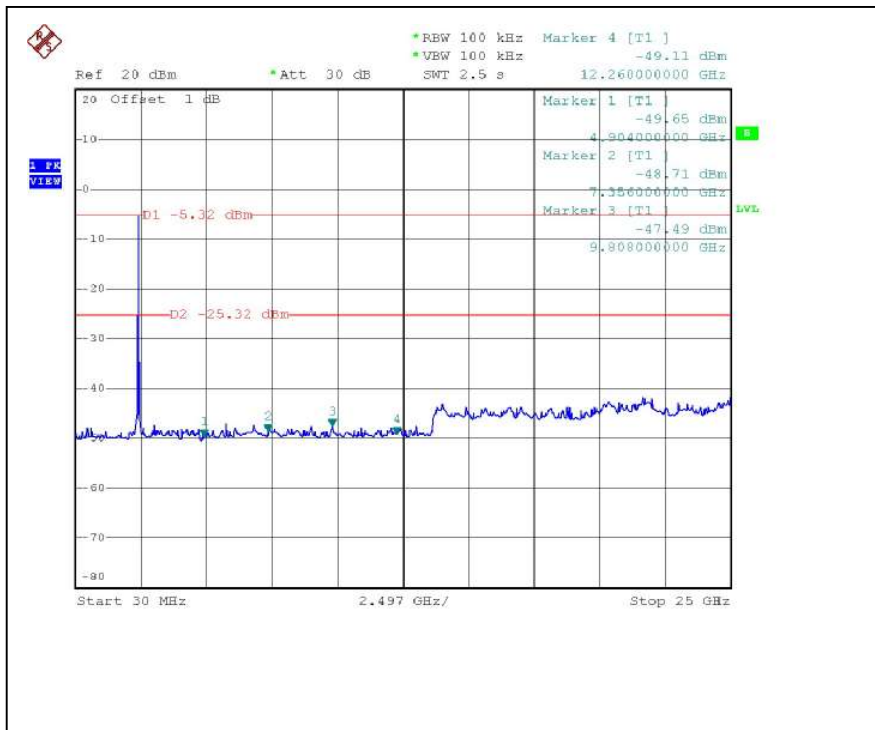
CH7



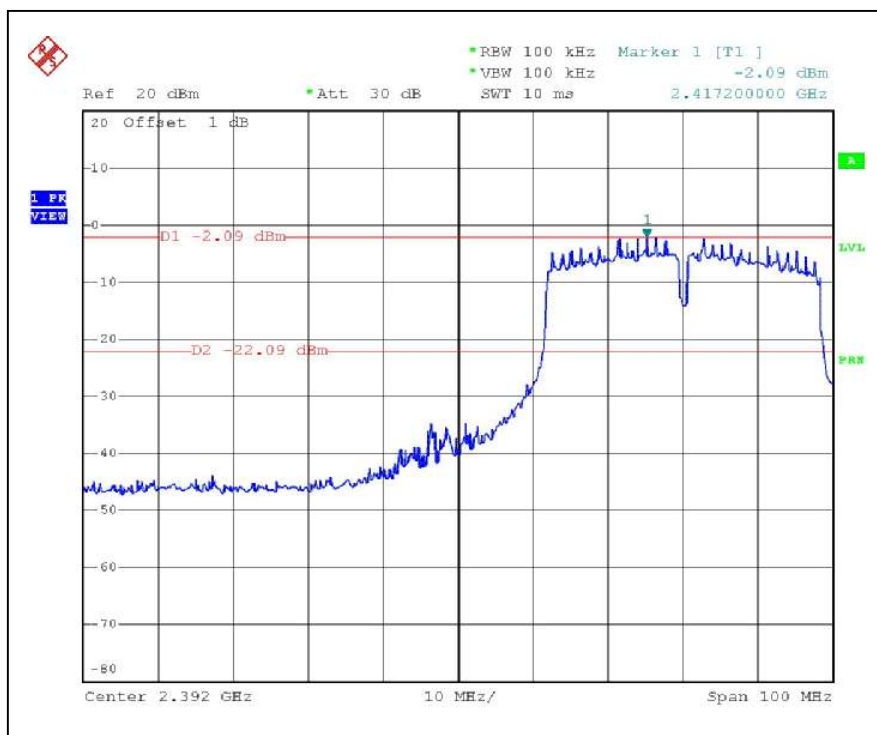
CH1



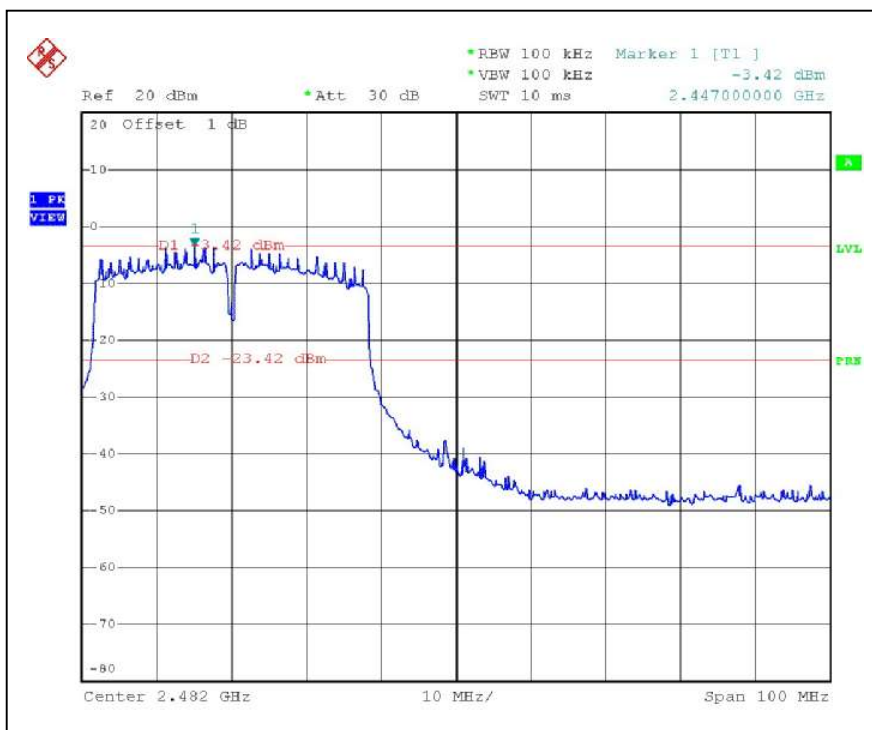
CH7



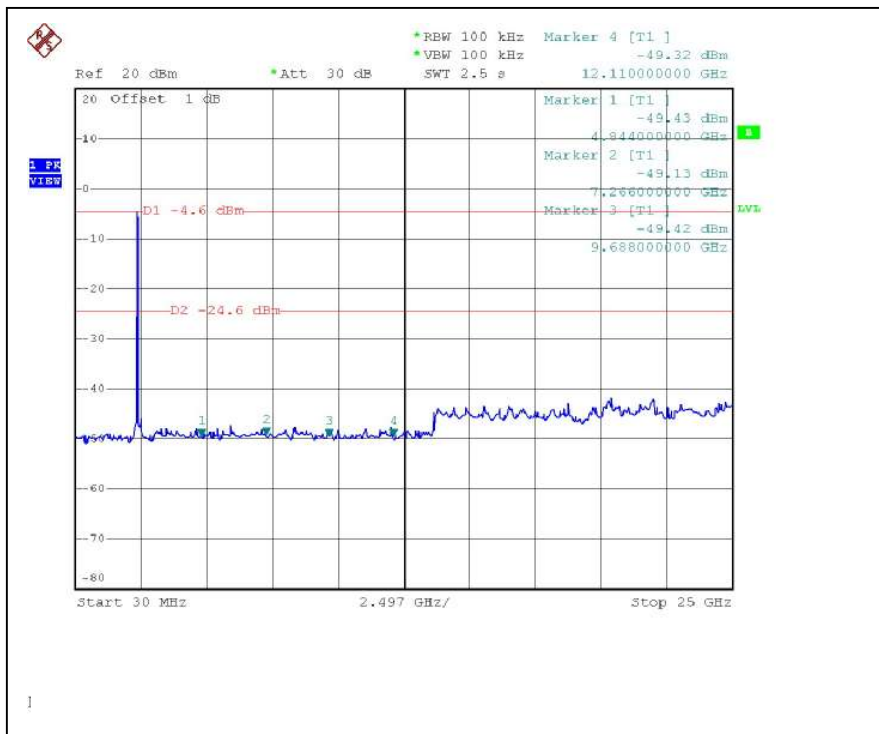
FOR CHAIN 2:CH1



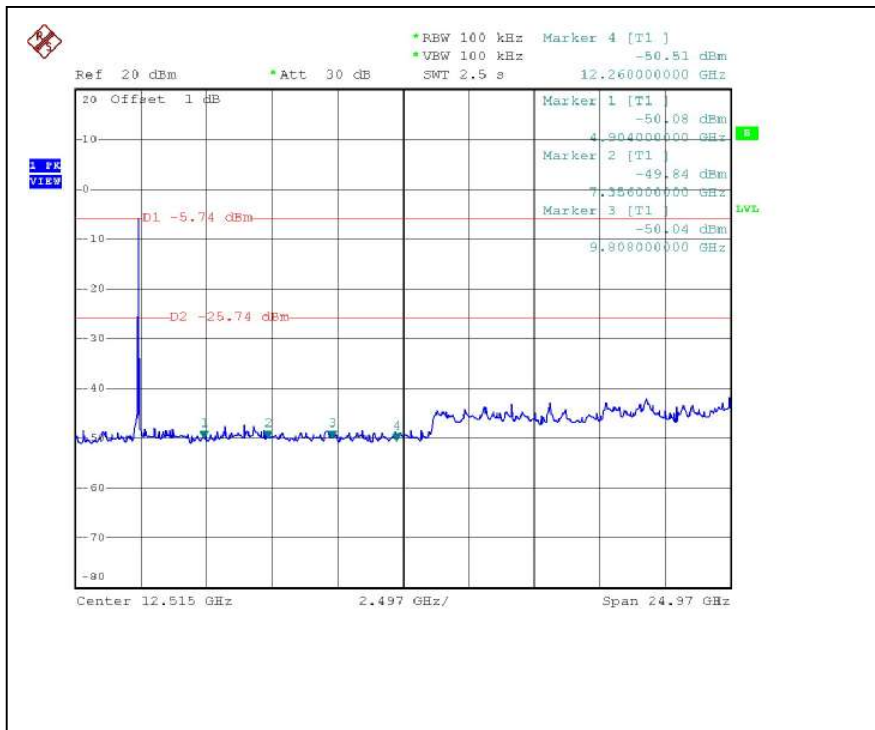
CH7



CH1



CH7



4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

There are three dipole antennas provided to this EUT, all the antennas are the same.

The information of the antenna, please refer to the following table:

Gain (dBi)	Cable lose(dB)	Antenna Type	Antenna Connector
1.8	0.4	Dipole	HRS RF

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

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The address and road map of all our labs can be found in our web site also.



APPENDIX-A

MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.